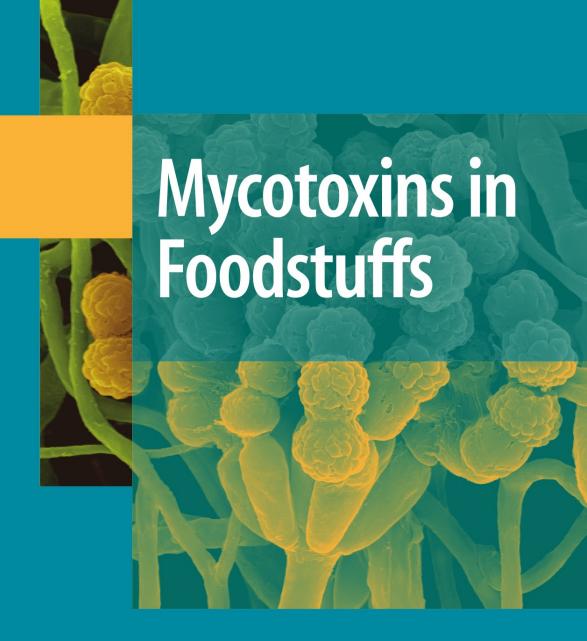
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Mycotoxins in Foodstuffs

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Preface

Mycotoxins in Foodstuffs Because mankind exists, the need for food is indispensable. But food is attacked by many microorganisms. If suitable conditions prevail, the microorganisms can grow and subsequently spoil the food. Of these microorganisms, filamentous fungi are of special interest. Once they grow, they not only spoil the food but they can also produce mycotoxins. The presence of invisible mycotoxins in food is unwarranted and can produce serious problems. At high levels mycotoxins can even cause death shortly after exposure. At lower levels, they can cause disorders in various organs and/or impair immunity. In the end, mycotoxins are a cost factor in people's health.

In contrast to bacterial contamination of food the enhanced contamination by fungi becomes more visual. Every consumer knows about the appearance of moldy food and the awareness of the public concerning the health hazard of foods is great. Furthermore, consumers demand high quality food. As a prerequisite for producing such food the food industry as a whole must be aware of fungi and their corresponding mycotoxins. This book, *Mycotoxins in Foodstuffs*, gives excellent information about mycotoxins occurring in food.

Mycotoxin contamination of food occurs as a result of crop invasion by field fungi, for example, *Fusarium* spp. and *Alternaria* spp. Drought, close planting, competition from weeds, reduced fertilization, and other factors cause stress to plants and enhance the growth of these fungi. Another reason is the growth of storage fungi in improperly stored crops and/or after processing the plants into food products. Then *Aspergillus* spp. and *Penicillium* spp. (storage fungi) start their growth. Storage fungi also grow while food is preserved, for example, in a refrigerator.

In the worst case these fungi produce secondary metabolites, the so-called mycotoxins. They can be very harmful for man and animal. In 1960 the Turkey "X" disease was caused by a toxin (aflatoxin) produced by molds belonging to the *Aspergillus flavus* group. It resulted in the death of 100,000 turkeys in the United Kingdom. Herewith the search for mycotoxins began. Today, approximately 400 mycotoxins are known, having different negative effects on one or several organs in the human or animal body.

The present book gives an overview of the main mycotoxins in food. It lists the degree of contamination, concentration, and country of detection/origin for each case of mycotoxin contamination. In addition to this information, the book shows whether a foodstuff is predisposed for mycotoxin contamination (number of different mycotoxins as well as number of citations in or for one food item). More than 870 references have been cited.

The foodstuffs are listed in alphabetical order. Terms with brackets follow. All types of, for example, flakes, flours, fruits, grits, juices, kidneys, livers, meals, milks, nuts, oils, and spices are ordered together to get a faster overview of mycotoxins involved in the corresponding foodstuff. This was done as far as possible.

In some cases, the country of detection is not necessarily the country of origin, but information was lacking concerning the country of origin of such imports in the original literature.

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Mycotoxins in Foodstuffs contributes to greater information and transparency in human food. It is especially suitable for those with responsibility in the food industry (e.g., food producers, supervisors of food, food traders) as well as ministries, offices, and departments of farming and environmental control on the national and international level, offices, associations, agricultural chambers, mycologists, mycotoxicologists, biologists, chemists, supervisors in food quality control, lawyers and experts in food law, students of respective fields, and further groups of interests.

Authors are invited to send published articles (in English only, please) in recommended journals to the author of this book. After critical review relevant results may be published in a later edition.

Acknowledgements

I wish to thank Dr. Ursula Monnerjahn-Karbach for valuable advice. I would also like to thank Mrs. Renate Frohn, Mrs. Ursula Kleinheyer-Thomas, Mrs. Verena Bormann, and Mr. Krämer from Bran Library for Medicine, Science and Agricultural Science, Bonn University, for helping me in searching for articles I needed. I appreciate the great patience of my family, especially of my wife, which was essential for writing this book. My father is thanked for his very careful review of the total manuscript.

Abbreviations

ah affected household

BEN Balkan Endemic Nephropathy

BGY bright greenish yellow

С conventional

conventionally grown cg conventional origin co

control con

concentration conc detection limit DL dw dry weight EC esophageal cancer ecologically grown eg

Fdk Fusarium-damaged kernels hdk heavily damaged kernels healthy looking kernels hlk limit of quantification LOQ

nonaffected household nah

nc no comment

ncac no comment about consumption

not detected nd not sieved nsi organic o present pr tr traces selected samples sa

sieved vh visibly healthy visibly moldy vm

si

Notation

```
\begin{array}{lll} kg & = kilogram \\ mg & = milligram = 10^{-3} \ g; \ 1mg/kg = 1:10^6 = ppm = parts \ per \ million \\ \mu g & = microgram = 10^{-6}g; \ 1\mu g/kg = 1:10^9 = ppb = parts \ per \ billion \\ l & = litre \\ ml & = millilitre = 10^{-3}l; \ 1ml/l = 1:10^3 \\ \mu l & = microlitre = 10^{-3}ml; \ 1\mu l/l = 1:10^6 = ppm = parts \ per \ million \end{array}
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1 Acha

Acha may contain the following mycotoxins:

Aflatoxin B₁

incidence: 4/23, conc. range: 2.4-20 µg/kg, Ø conc.: 12 μg/kg, country: Nigeria⁷⁶⁸ see also areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drink, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruit products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices

(mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxin B_2

incidence: 2/23, conc. range: 8-12 µg/kg, Ø conc.: 10 μg/kg, country: Nigeria⁷⁶⁸ see also areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Deoxynivalenol

incidence: 3/21, conc. range: 7–58 μg/kg, Ø conc.: 34.2 μg/kg, country: Nigeria⁷⁶⁸ see also barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits Acha 2

(maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

ZEARALENONE

incidence: 8/23, conc. range: 18–602 µg/kg, Ø conc.: 257 μg/kg, country: Nigeria⁷⁶⁸ see also amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Almond paste

see Marzipan (almond paste)

Almonds

see Nuts (almond)

Amaranth may contain the following mycotoxins:

ZEARALENONE

incidence: 2/2, conc. range: $420-1980 \mu g/kg$, \varnothing conc.: 1200 $\mu g/kg$, country: Argentina⁴³⁴ see also acha, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes

(corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Ammi

see Spices (ammi)

Angkak (red mold rice) may contain the following mycotoxins:

CITRININ

incidence: 4/16*, conc. range: ≤50,000 µg/kg, country: Germany³¹², *from China, Japan, unknown

incidence: 4/4*, conc. range: 42–86 µg/kg, country: Germany⁷¹⁵, *imported? see also barley, cereals, cheese, food, food colorant, fruits (apple), maize, maize dough, meal (copra), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), oil seed rape, olives, rice, spices, spices (cardamom), spices (coriander), spices (cumin), spices (fennel), spices (pepper), spices (turmeric), wheat

Apple and fruit vinegar

see Vinegar

Apple cider may contain the following mycotoxins:

PATULIN

incidence: 2/8*, conc. range: 5–10 μ g/l, \varnothing conc.: 7.5 μ g/l, country: South Africa²²², *alcoholic apple incidence: 2/5, conc. range: 2.8 μ g/l, country: Belgium⁶⁷⁷

3 Areca nut

incidence: 1/2*, conc.: 6.1 µg/l, country: Belgium⁶⁷⁷, *imported

incidence: 5/5, conc. range: 244–3993 μ g/kg, \varnothing conc.: 1902 μ g/kg, country: USA⁷¹¹ incidence: ?/100, conc. range: \leq 45,000* μ g/l,

country: USA⁸⁴⁴, *organic

incidence: 4/95, conc. range: \leq 25,000 µg/l,

country: USA⁸⁴⁴

incidence: 4/19*, conc. range: 50–2000 µg/kg, Ø conc.: 250 µg/kg, country: France⁸⁵³,

*home-made, industrial see also apple flavor, apples (stewed fruit), berries (blueberry), berries (lingonberry), berries (mulberry), berries (raspberry), berries (strawberry), cassava, cheese, food (baby), fruit products, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (pear), fruits (plum), jam, jam (apple), juice, juice (apple), juice (apple-acerola), juice (apple, concentrate), juice (cherry), juice (currant), juice (fruit), juice (grape), juice (orange), juice (peach), juice (pear), must, pulp (plum), syrup (apple), vinegar

Apple flavor may contain the following mycotoxins:

PATILLIN

incidence: 3/14, conc.: 6–1770 μg/kg, \varnothing conc.: 607 μg/kg, country: Finland⁷⁰⁰ see also apple cider, apples (stewed fruit), berries (blueberry), berries (lingonberry), berries (mulberry), berries (raspberry), berries (strawberry), cassava, cheese, food (baby), fruit products, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (pear), fruits (plum), jam, jam (apple), juice, juice (apple), juice (apple-acerola), juice (apple, concentrate), juice (cherry), juice (currant), juice (fruit), juice (grape), juice (orange), juice (peach), juice (pear), must, pulp (plum), syrup (apple), vinegar

Apple jam

see Jam (apple)

Apple juice

see Juice (apple)

Apple juice concentrate

see Juice (apple, concentrate)

Apple syrup

see Syrup (apple)

Apple-acerola juice

see Juice (apple-acerola)

Apples

see Fruits (apple)

Apples (stewed fruit) may contain the following mycotoxins:

PATULIN

incidence: 1/16, conc.: 2.6 μg/kg, country: Germany⁶⁹⁵

incidence: 16/21*, conc. range: 100–150 μg/kg, Ø conc.: 120 μg/kg, country: France⁸⁵³, *industrial

see also apple cider, apple flavor, berries (blueberry), berries (lingonberry), berries (mulberry), berries (raspberry), berries (strawberry), cassava, cheese, food (baby), fruit products, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (pear), fruits (plum), jam, jam (apple), juice, juice (apple), juice (apple-acerola), juice (apple, concentrate), juice (cherry), juice (currant), juice (fruit), juice (grape), juice (orange), juice (peach), juice (pear), must, pulp (plum), syrup (apple), vinegar

Apricots

see Fruits (apricot)

Areca nut may contain the following mycotoxins:

Aflatoxin B₁

incidence: 10/10* **, conc. range: 2.1–10.2 µg/kg, country: South Africa¹⁸, *imported, **sliced raw

incidence: 2/20* **, conc. range: ≤0.1 µg/kg, country: South Africa¹8, *imported, **boiled see also acha, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas,

Areca nut 4

dates, drink, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruit products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂ incidence: 10/10* **, conc. range: 0.2–1.3 μg/kg, country: South Africa¹⁸, *imported, **sliced raw see also acha, beans, beer, betel nut, bondakaledkai, buckwheat, cereals

(breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

incidence: 10/10* **, conc. range: 0.2-16.6 μg/kg, country: South Africa¹⁸, *imported, **sliced raw see also beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin),

spices (fennel), spices (fenugreek), spices

AFLATOXIN G₁

5 Bacon

(garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

Aflatoxin G₂ incidence: 10/10* **, conc. range: 0.1-1.8 μg/kg, country: South Africa18, *imported, **sliced raw see also beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

Arepas may contain the following mycotoxins:

Fumonisin B₁

incidence: 2/6, conc. range: 44–61 μg/kg, Ø conc.: 53 μg/kg, country: Colombia⁶⁷² see also asparagus, barley, batter, beans, beer, bran (maize), bread, cake (rice), cereals, cereals (breakfast), chamomile, chips (maize), chips (tortilla), flakes (corn), flour (maize), food, food (baby), foodstuff, grits (maize), Incaparina, leaves, maize, maize fiber, maize muffin, maize products, maize silk, maize starch, masa, meal (maize), meal (sorghum), milk, muffin mix, nuts (peanut), pancake, popcorn, rapoko, rice, snacks, sorghum, soybeans, syrup (sorghum), tea, tortillas, wheat

Fumonisin B₂

incidence: 3/6, conc. range: 39–93 μ g / kg, \varnothing conc.: 60 μ g/kg, country: Colombia⁶⁷²

see also asparagus, barley, batter, beer, bran (maize), cereals, cereals (breakfast), chips (maize), chips (tortilla), flakes (corn), flour (maize), food (baby), foodstuff, grits (maize), Incaparina, maize, maize fiber, maize starch, masa, meal (maize), muffin mix, pancake, popcorn, rice, snacks, tortillas, wheat

Asparagus may contain the following mycotoxins:

Fumonisin B₁

incidence: 2/25, conc. range: 460 µg*/kg, 7400 µg**/kg, country: Italy³³⁷⁶, *stem, **crown see also arepas, barley, batter, beans, beer, bran (maize), bread, cake (rice), cereals, cereals (breakfast), chamomile, chips (maize), chips (tortilla), flakes (corn), flour (maize), food, food (baby), foodstuff, grits (maize), Incaparina, leaves, maize, maize fiber, maize muffin, maize products, maize silk, maize starch, masa, meal (maize), meal (sorghum), milk, muffin mix, nuts (peanut), pancake, popcorn, rapoko, rice, snacks, sorghum, soybeans, syrup (sorghum), tea, tortillas, wheat

Fumonisin B_2

incidence: 2/25, conc. range: 60 µg*/kg, 830 µg**/kg, country: Italy³³⁷⁶, *stem, **crown see also arepas, barley, batter, beer, bran (maize), cereals, cereals (breakfast), chips (maize), chips (tortilla), flakes (corn), flour (maize), food (baby), foodstuff, grits (maize), Incaparina, maize, maize fiber, maize starch, masa, meal (maize), muffin mix, pancake, popcorn, rice, snacks, tortillas, wheat

Baby cereal

see Cereal (baby)

Baby food

see Food (baby)

Bacon may contain the following mycotoxins:

Aflatoxin B₁

incidence: 2*/10, conc. range: 1000-5000 µg/kg, \varnothing conc.: 3000 µg/kg, country: Germany⁶⁷, *moldy

Bacon 6

see also acha, areca nut, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drink, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruit products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Balsamico

see Vinegar

Barley may contain the following mycotoxins:

AFLATOXIN B₁ incidence: 10/64*, conc. range: ≤8 μg/kg, country: USSR¹⁹¹, *imported incidence: 17/130, conc. range: ≤2.5 µg/kg, country: USSR191 incidence: 3/376*, conc. range: ≤2000 µg/kg, country: UK⁷⁶¹, *ncac see also acha, areca nut, bacon, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drink, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruit products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste

(soybean), peanut butter / vegetable oil, peas,

poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxin

incidence: 13/37, conc. range: 1–5 µg/kg (9 sa), 5–20 µg/kg (3 sa), 31 µg/kg (1 sa), country: Czechoslovakia⁵⁵ see also beer, bran (rice), flour (maize), injera, jars, kocho, maize, maize roti, malt (barley), malt (maize), nuts (peanut), nuts (peanut butter), nuts (pistachio), oil (peanut), paste (pepper, red), rice, spices (pepper)

incidence: 13?/137*, conc. range: 2-20 µg/kg

Aflatoxins (B_1, B_2, G_1, G_2)

(7 sa), >20 μg/kg (3 sa), country: Uruguay⁷⁸⁷, *and malt see also beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (fig), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices

(nutmeg), spices (paprika), spices (pepper,

cayenne), sunflower seeds, vegetables, wheat

Altenuene

incidence: 1/10, conc.: 700 μg/kg, country: Egypt²⁹¹ see also fruits (apple), maize, olives, ragi, rice, sorghum, tomatoes, wheat

ALTERNARIOL METHYL ETHER incidence: 4/10, conc. range: ≤300 μg/kg, country: Egypt²⁹¹ see also bran, fruits (apple), fruits (mandarin fruit), fruits (melon), juice (apple, concentrate), olives, ragi, sorghum, spices (pepper), sunflower seeds, tomatoes, wheat

BEAUVERICIN

incidence: 22/22*, conc. range: tr–19 μg/kg, country: Finland⁴⁵⁹, *ncac see also maize, oats, wheat

CITRININ

incidence: 15/27, conc. range: 53.2-100 $\mu g/kg$, \varnothing conc.: 64.4 $\mu g/kg$, country: Egypt⁷²¹ incidence: 4/269*, conc. range: 30-480 µg/kg, Ø conc.: 183 μg/kg, country: Sweden⁷⁷¹, *ncac incidence: 4/4* **, conc. range: tr-1600 μg/kg, country: UK⁸⁰⁷, *moldy, **ncac incidence: 1/1*, conc.: 71 µg/kg, country: UK⁸⁰⁸, *ncac see also angkak (red mold rice), cereals, cheese, food, food colorant, fruits (apple), maize, maize dough, meal (copra), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), oil seed rape, olives, rice, spices, spices (cardamom), spices (coriander), spices (cumin), spices (fennel), spices (pepper), spices (turmeric), wheat

Deoxynivalenol

incidence: 12/29*, conc. range: ≤163 µg/kg, Ø conc.: 49 µg/kg, country: Lithuania²⁰³, *ncac incidence: 5/7, conc. range: 5–100 µg/kg (5 sa), country: Finland²¹⁹ incidence: 28/40*, conc. range: 5–857 µg/kg, Ø conc.: 79.3 µg/kg, country: Sweden²³⁸, *ncac incidence: 1/1, conc.: 56 µg/kg, country: Germany²⁴⁴ incidence: 8/93*, conc. range: 1470–4000 µg/kg, Ø conc.: 2552.9 µg/kg, country: Saudi Arabia³²⁵, *ncac

incidence: 2/2, conc. range: 132-3521 µg/kg, incidence: 10/14* **, conc. range: 3-50 µg/kg, Ø conc.: 1826.5 μg/kg, country: China³⁴² Ø conc.: 18 μg/kg, country: Japan⁵³¹, incidence: 117/117, conc. range: 30-15,790 *polished pressed, **and unknown origin μg/kg, country: Canada⁴²⁵, *ncac incidence: 1/1* **, conc.: 48 μg/kg, country: incidence: 27/30, conc. range: 10-202 µg/kg, Japan⁵³¹, *pearled, **unknown origin Ø conc.: 78 μg/kg, country: Finland⁴⁵⁵ incidence: 13/16* ** ***, conc. range: 11-350 incidence: 3/3*, conc. range: 27–46 µg/kg, Ø μ g/kg, Ø conc.: 97.6 μ g/kg, country: Japan⁵³², conc.: 38 µg/kg, country: Finland⁴⁵⁵, *from *and Canada, **included naked, pressed, Canada, Sweden ***ncac incidence: 19/25*, conc. range: tr-40,400 incidence: 5/8* **, conc. range: 10-81 μg/kg, μg/kg, country: Japan⁴⁶¹, *ncac Ø conc.: 26.1 μg/kg, country: Japan⁵³³, *from incidence: 35/39, conc. range: 25-1051 µg/kg, Scotland, **ncac Ø conc.: 170 μg/kg, country: Korea⁴⁶² incidence: 5/6* **, conc. range: 4-152 µg/kg, incidence: 799/1095*, conc. range: 30-11,740 Ø conc.: 58 μg/kg, country: Japan⁵³⁶, *from μg/kg, country: Norway⁴⁶⁴, *ncac The Netherlands, **ncac incidence: 11/11*, conc. range: <30-4500 incidence: 18/20* **, Ø conc.: 237 μg/kg, μg/kg, country: Norway465, *ncac country: Japan⁵³⁸, *from Argentina, **ncac incidence: 17/102, conc. range: >20-1440 incidence: 2/13* **, Ø conc.: 190 μg/kg, μg/kg, Ø conc.: 155 μg/kg, country: country: Japan⁵³⁸, *from Germany, **ncac Norway⁴⁶⁶ incidence: 2/5* **, Ø conc.: 195 μg/kg, incidence: 26/28*, conc. range: 4-508 µg/kg, country: Japan⁵³⁸, *from Italy, **ncac Ø conc.: 126 μg/kg, country: Korea⁴⁶⁹, *ncac incidence: $2/3^*$ **, \varnothing con.: 19 µg/kg, country: incidence: 5/6*, conc. range: 11–34 μg/kg, Ø Japan⁵³⁸, *from Yemen, **ncac conc.: 25.4 µg/kg, country: Korea⁴⁶⁹, *for incidence: 108/147*, conc. range: ≤25,800 food and feed μg/kg, country: USA⁵⁴⁴, *and malting barley incidence: 31/31*, conc. range: 12-901 µg/kg, incidence: 1/6*, conc.: 390 µg/kg, country: Ø conc.: 124 μg/kg, country: Korea⁴⁷⁰, *ncac Poland⁵⁴⁸, *ncac incidence: 5/6* **, conc. range: 3-65 μg/kg, incidence: 7/7* **, conc. range: 0.26-24 country: Korea⁴⁷⁰, *husked, **ncac μg/kg, Ø conc.: 13.8 μg/kg, country: incidence: 12/20* **, conc. range: tr-30 Germany⁵⁵¹, *from Canada, **ncac μg/kg, country: The Netherlands⁵⁰⁰, *and incidence: 6/7* **, conc. range: 34-440 µg/kg, from Denmark, France, unknown, **ncac Ø conc.: 137 μg/kg, country: Germany⁵⁶², incidence: 35/57* **, conc. range: 8-495 *and unknown origin, **o $\mu g/kg$, \varnothing conc.: 92.2 $\mu g/kg$, country: Korea⁵⁰⁷, incidence: 1/1* **, conc.: 46 μg/kg, country: *husked and naked, **ncac Germany⁵⁶², *unknown origin, **c incidence: 33/37*, conc. range: 29-677 µg/kg, incidence: 71/94*, conc. range: 5-3780 µg/kg, \emptyset conc.: 220.1 µg/kg, country: Korea⁵⁰⁸, country: Japan⁵⁷¹, *ncac *husked and naked incidence: 17/17*, conc. range: 29-70,500 incidence: 3/11, conc. range: 168-506 µg/kg, μg/kg, Ø conc.: 9834 μg/kg, country: Ø conc.: 297 μg/kg, country: Korea⁵⁰⁹ Japan⁵⁷³, *ncac incidence: 20/30*, conc. range: 5-361 µg/kg, incidence: 8/17*, conc. range: 20-230 μg/kg, Ø conc.: 106 μg/kg, country: Korea⁵¹⁴, *ncac Ø conc.: 112 μg/kg, country: Japan⁶¹⁰, *ncac incidence: 16/90, conc. range: 7-1670 µg/kg, incidence: 2/8, conc. range: 5-50 µg/kg country: Canada⁵²¹, *ncac (2 sa), country: Finland⁷⁶⁵ incidence: 34/49*, conc. range: 6-2139 µg/kg, incidence: $4/5^*$, conc. range: $\leq 73 \mu g/kg$, Ø conc.: 165.6 μg/kg, country: Norway⁵²⁹, country: France⁷⁷⁶, *cg *ncac incidence: 104/139*, Ø conc.: 149 µg/kg, incidence: 3/5*, conc. range: ≤209 µg/kg, country: Japan⁵³⁰, *ncac country: France⁷⁷⁶, *og

incidence: 53/124*, conc. range: 80-500 µg/kg $(36 \text{ sa}), 500-1000 \mu g/kg (6 \text{ sa}), >1000 \mu g/kg$ (11 sa), country: Uruguay⁷⁸⁷, *and malt see also acha, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

3-Acetyldeoxynivalenol

incidence: 24/117, conc. range: <350 µg/kg, country: Canada⁴²⁵, *ncac incidence: 10/30, conc. range: 24–96 µg/kg, Ø conc.: 46 µg/kg, country: Finland⁴⁵⁵ incidence: 7/39, conc. range: 13–168 µg/kg, Ø conc.: 65 µg/kg, country: Korea⁴⁶² incidence: 1/30*, conc.: 7 µg/kg, country: Korea⁵¹⁴, *ncac incidence: 5/7* **, conc. range: 1.3-5.3 μg/kg, Ø conc.: 2.8 μg/kg, country: Germany⁵⁵¹, *from Canada, **ncac incidence: 15/17*, conc. range: 10-18,700 μg/kg, Ø conc.: 2190 μg/kg, country: Japan⁵⁷³, *ncac see also bread, cereals, cereals (breakfast), flakes (oat), flour (maize), flour (wheat), food, food (baby), grits (maize), maize, oat

15-Acetyldeoxynivalenol

products, oats, rice, rye, snacks, wheat

incidence: 63/117, conc. range: ≤1240 μg/kg, country: Canada⁴²⁵, *ncac incidence: 5/7* **, conc. range: 0.4–2.4 μg/kg, Ø conc.: 1.3 μg/kg, country: Germany⁵⁵¹, *from Canada, **ncac incidence: 2/17*, conc. range: 96–522 μg/kg, Ø conc.: 309 μg/kg, country: Japan⁵⁷³, *ncac

see also bran (oat), bran (wheat), cereals (breakfast), flour (maize), flour (wheat), food, grits (maize), maize, noodles, oat products, oats, snacks, wheat

3,15-Diacetyldeoxynivalenol incidence: 25/117, conc. range: ≤400 µg/kg, country: Canada⁴²⁵, *ncac

incidence: 6/7* **, conc. range: tr–0.4 μg/kg, country: Germany⁵⁵¹, *from Canada, **ncac

Enniatin A

incidence: $21/22^*$, conc. range: tr– $950 \mu g/kg$, country: Finland⁴⁵⁹, *ncac see also wheat

Enniatin A₁

incidence: 22/22*, conc. range: tr–2000 μg/kg, country: Finland⁴⁵⁹, *ncac see also oats, rye, wheat

ENNIATIN B

incidence: 22/22*, conc. range: 44–9760 μ g/kg, \varnothing conc.: 1621.8 μ g/kg, country: Finland⁴⁵⁹, *ncac see also oats, rye, wheat

Enniatin B_1

incidence: 22/22*, conc. range: tr–5720 μg/kg, country: Finland⁴⁵⁹, *ncac see also oats, rye, wheat

incidence: 21/29*, conc. range: 200-11,600

Fumonisin B₁

µg/kg, Ø conc.: 1900 µg/kg, country: Spain³⁵⁵, *ncac see also arepas, asparagus, batter, beans, beer, bran (maize), bread, cake (rice), cereals, cereals (breakfast), chamomile, chips (maize), chips (tortilla), flakes (corn), flour (maize), food, food (baby), foodstuff, grits (maize), Incaparina, leaves, maize, maize fiber, maize muffin, maize products, maize silk, maize starch, masa, meal (maize), meal (sorghum), milk, muffin mix, nuts (peanut), pancake, popcorn, rapoko, rice, snacks, sorghum, soybeans, syrup (sorghum), tea, tortillas, wheat

Fumonisin B₂

incidence: 1/29*, conc.: 500 μg/kg, country: Spain³⁵⁵, *ncac

see also arepas, asparagus, batter, beer, bran (maize), cereals, cereals (breakfast), chips (maize), chips (tortilla), flakes (corn), flour (maize), food (baby), foodstuff, grits (maize), Incaparina, maize, maize fiber, maize starch, masa, meal (maize), muffin mix, pancake, popcorn, rice, snacks, tortillas, wheat

HT-2 Toxin

incidence: 10/29*, conc. range: ≤88 µg/kg, Ø conc .: 41 μg/kg, country: Lithuania²⁰³, *ncac

incidence: 3/7, conc. range: 10-100 µg/kg (3 sa), country: Finland²¹⁹

incidence: 22/102, conc. range: >20-440 µg/kg, Ø conc.: 73 µg/kg, country: Norway⁴66 incidence: 5/24* **, conc. range: 210-370 μg/kg, Ø conc.: 230 μg/kg, country:

Poland⁵¹¹, *spring, **ncac

incidence: 1/8, conc.: 10-20 µg/kg (3 sa), country: Finland⁷⁶⁵

incidence: 2/5*, conc. range: ≤183 μg/kg, country: France⁷⁷⁶, *og

see also bran (oat), bran (wheat), bread, cereal (baby), cereals, cereals (breakfast), flakes (oat), flour (maize), flour (wheat), food, food (baby), germ (wheat), grits (maize), groats (oat), maize, noodles, nuts (hazelnut), oat products, oats, products, pumpkin seeds, rye, spices (chilli powder), spices (curry), sunflower seeds, wheat

Moniliformin

incidence: 11/14* **, conc. range: <20-290 μg/kg, country: Finland⁴⁵⁸, *spring, **ncac incidence: 17/22*, conc. range: tr-750 µg/kg, country: Finland⁴⁵⁹, *ncac incidence: 19/75*, conc. range: tr-380 μg/kg, country: Norway⁵⁵⁰, *ncac see also corn on the cob, flakes (corn), flour (maize), foodstuff, grits (maize), maize, maize-based thickeners, meal (maize), oats, popcorn, rye, snacks, triticale, wheat

Nivalenol

incidence: 18/29*, conc. range: <571 µg/kg, Ø conc.: 101 µg/kg, country: Lithuania²⁰³, *ncac incidence: 1/93*, conc.: 3.1 μg/kg, country: Saudi Arabia³²⁵, *ncac

incidence: 1/2, conc.: 186 µg/kg, country:

incidence: 5/17*, conc. range: 90-640 µg/kg, country: Japan⁴⁴⁸, *ncac

incidence: 4/30, conc. range: 38-59 µg/kg, Ø conc.: 46 μg/kg, country: Finland⁴⁵⁵ incidence: 19/25*, conc. range: tr-36,900

μg/kg, country: Japan⁴⁶¹, *ncac

incidence: 37/39, conc. range: 39-6892 µg/kg, Ø conc.: 1011 μg/kg, country: Korea⁴⁶² incidence: 6/102, conc. range: >20-50 µg/kg, Ø conc.: 30 μg/kg, country: Norway⁴⁶⁶ incidence: 28/28*, conc. range: 17-3002

μg/kg, Ø conc.: 546 μg/kg, country: Korea⁴⁶⁹,

incidence: 5/6*, conc. range: 85-328 µg/kg, Ø conc.: 155.6 μg/kg, country: Korea⁴⁶⁹, *for food and feed

incidence: 31/31*, conc. range: 180–1145 μg/kg, Ø conc.: 489 μg/kg, country: Korea⁴⁷⁰, *ncac

incidence: 6/6* **, conc. range: 39-228 μg/kg, Ø conc.: 112 μg/kg, country: Korea⁴⁷⁰, *husked, **ncac

incidence: 46/57* **, conc. range: 3-1109 μg/kg, Ø conc.: 231 μg/kg, country: Korea⁵⁰⁷, *husked and naked, **ncac

incidence: 37/37*, conc. range: 85-4569 μg/kg, Ø conc.: 1010 μg/kg, country: Korea⁵⁰⁸, *husked and naked

incidence: 2/11, conc. range: 189-324 µg/kg, Ø conc.: 257 μg/kg, country: Korea⁵⁰⁹ incidence: 28/30*, conc. range: 40-2038 μg/kg, Ø conc.: 390 μg/kg, country: Korea⁵¹⁴, *ncac

incidence: 13/96*, conc. range: 110-920 μg/kg, country: Canada⁵²¹, *ncac incidence: 49/49*, conc. range: 13-258 µg/kg, Ø conc.: 50.1 μg/kg, country: Norway⁵²⁹, *ncac

incidence: 106/139*, Ø conc.: 401 μg/kg, country: Japan⁵³⁰, *ncac

incidence: 13/14* **, conc. range: 8-380

 μ g/kg, \varnothing conc.: 67 μ g/kg, country: Japan⁵³¹, *polished pressed, **and unknown origin incidence: 1/1* **, conc.: 220 μg/kg, country: Japan⁵³¹, *pearled, **unknown origin

incidence: 13?/16* ** ***, conc. range: 16–1670 μg/kg, Ø conc.: 837 μg/kg, country: Japan⁵³², *and Canada, **included naked, pressed, ***ncac incidence: 3/8* **, conc. range: 7-1140 µg/kg, Ø conc.: 391 μg/kg, country: Japan⁵³³, *from Scotland, **ncac incidence: 4/6* **, conc. range: 30-145 µg/kg, Ø conc.: 85 μg/kg, country: Japan⁵³⁶, *from The Netherlands, **ncac incidence: 15/20* **, Ø conc.: 25 μg/kg, country: Japan⁵³⁸, *from Argentina, **ncac incidence: 1/13* **, conc.: 44 µg/kg, country: Japan⁵³⁸, *from Germany, **ncac incidence: 1/5* **, conc.: 23 μg/kg, country: Japan⁵³⁸, *from Italy, **ncac incidence: 1/4* **, conc.: 21 μg/kg, country: Japan⁵³⁸, *from Nepal, **ncac incidence: 2/3* **, Ø con.: 13 μg/kg, country: Japan⁵³⁸, *from Yemen, **ncac incidence: 3/6*, conc. range: 56–91 µg/kg, Ø conc.: 78.3 µg/kg, country: Poland⁵⁴⁸, *ncac incidence: 78/94*, conc. range: 15-3900 μg/kg, country: Japan⁵⁷¹, *ncac incidence: 17/17*, conc. range: 116-26,000 μg/kg, Ø conc.: 4991 μg/kg, country: Japan⁵⁷³, *ncac incidence: 14/17*, conc. range: 30–1070 μg/kg, Ø conc.: 231 μg/kg, country: Japan⁶¹⁰, *ncac incidence: 3/8, conc. range: 10-20 µg/kg (3 sa), country: Finland⁷⁶⁵ incidence: 1/5*, conc.: 57 μg/kg, country: France⁷⁷⁶, *cg incidence: 4/5*, conc. range: ≤301 µg/kg, country: France⁷⁷⁶, *og see also beer, biscuits, bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, germ (wheat), grits (maize), grits (wheat), Job's-tears, maize, malt (barley), meal (millet), millet, noodles, oat products, oats, rice, rye, snacks, sorghum, soybeans, spices (chilli sauce), spices (curry), spices (curry paste), spices (curry powder), spices (garlic), spices (ginger), spices (tandoori), wheat

4-Acetylnivalenol incidence: 17/39, conc. range: $12-71 \mu g/kg$, \varnothing

conc.: 25 μg/kg, country: Korea⁴⁶² incidence: 13/17*, conc. range: tr–2470 μg/kg, country: Japan⁵⁷³, *ncac

see also maize, wheat

4,15-Diacetylnivalenol

incidence: 5/39, conc. range: 15–28 µg/kg, \varnothing conc.: 22 µg/kg, country: Korea⁴⁶² see also maize

OCHRATOXIN A

incidence: $21/40^*$, conc. range: $3-934 \mu g/kg$, \varnothing conc.: $113 \mu g/kg$, country: Sweden²³⁸, *ncac incidence: $10/68^*$, conc. range: $0.1-206 \mu g/kg$, \varnothing conc.: $58.8 \mu g/kg$, country: Germany⁵⁷⁷, *ncac

incidence: $5/5^*$, conc. range: $300-1670 \mu g/kg$, \varnothing conc.: $994 \mu g/kg$, country: Poland⁵⁸⁵, *ncac incidence: $5/5^*$ **, conc. range: $50-654 \mu g/kg$, country: Poland⁵⁸⁵, *pearled, **ncac incidence: $1/26^*$ **, conc.: $0.3 \mu g/kg$, country: Poland⁵⁸⁷, *c, **ncac

incidence: $3/40^*$ **, conc. range: 6.7–57 µg/kg, \varnothing conc.: 25.7 µg/kg, country:

Poland⁵⁸⁷, *o, **ncac

incidence: $2/36^*$ **, conc. range: 1.2-9.7 µg/kg, \varnothing conc.: 5.5 µg/kg, country: Poland⁵⁸⁸, *c, **ncac

incidence: 2/17* **, conc. range: 1.4–35.3 μg/kg, Ø conc.: 18.4 μg/kg, country: Poland⁵⁸⁸, *o, **ncac

incidence: 17/25*, conc. range: 1–5 μg/kg (7 sa), 5–20 μg/kg (8 sa), >20 μg/kg (2 sa), country: Czechoslovakia⁵⁹⁵, *ncac incidence: 9/89* **, conc. range: 0.02–0.15 μg/kg, country: Germany⁵⁹⁶, *malting, **after harvest

incidence: 7/99* **, conc. range: 0.02–0.91 $\mu g/kg,$ country: Germany $^{596},$ *malting, **after storage

incidence: 5/22, conc. range: $0.6-0.9 \mu g/kg$, \varnothing conc .: $0.8 \mu g/kg$, country: Korea⁵⁹⁹ incidence: 26/29, conc. range: $0.53-12 \mu g/kg$, country: Turkey⁶⁰⁸ incidence: $3/43^* **$, conc. range: 15.8-24.3

µg/kg, Ø conc.: 20.2 μg/kg, country: Denmark⁶²², *and oats, **ncac

incidence: 1/23, conc.: 5 μg/kg, country: Yugoslavia⁶²⁹

incidence: $21/21^*$, conc. range: 0.1–8652 µg/kg, country: Tunisia⁶³⁴, *and derived food incidence: $9/52^*$, conc. range: 1–5 µg/kg (7 sa), >10 µg/kg (2 sa, with a maximum of 45 µg/kg), country: UK⁶³⁶, *and from different countries?

incidence: 12/47*, conc. range: \leq 9.2 µg/kg, \varnothing conc.: 0.4 µg/kg, country: UK⁶³⁷, *used for malting

incidence: 11/103, conc. range: 0.03–0.2 μ g/kg (4 sa), 0.3–0.8 μ g/kg (3 sa), 1.5–3.5 μ g/kg (3 sa), 17 μ g/kg (1 sa), \varnothing conc.: 2.5 μ g/kg, country: USA⁶⁸⁵

incidence: 19/22, conc. range: ≤0.495 μg/kg, Ø conc.: 0.07 μg/kg, country: Germany⁶⁹⁰ incidence: 4/27, conc. range: 19.4–27 μg/kg, country: Egypt⁷²¹

incidence: $17/200^*$ **, conc. range: $1-5 \mu g/kg$ (14 sa), $5-10 \mu g/kg$ (1 sa), $>10 \mu g/kg$ (2 sa, with a maximum of 33 $\mu g/kg$), country: UK⁷³³, *at harvest and stored, **ncac incidence: $7/153^*$, conc. range: $\le 6.4 \mu g/kg$, country: UK⁷⁴², *ncac

incidence: $51/376^*$, conc. range: $\leq 5000 \mu g/kg$, country: UK^{761} , *ncac

incidence: 17/269*, conc. range: tr–20 μ g/kg, country: Sweden⁷⁷¹, *ncac

incidence: $4/4^*$ **, conc. range: 75–11,000 µg/kg, \varnothing conc.: 3038 µg/kg, country: UK⁸⁰⁷, *moldy, **ncac

incidence: 1/1*, conc.: 68 µg/kg, country: UK 808 , *ncac

incidence: 11/20, conc. range: ≤0.8 µg/kg, Ø conc.: 0.17 µg/kg, country: Morocco⁸⁶⁶ see also beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat),

flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

OCHRATOXIN B

incidence: 7/89* **, conc. range: 0.03–0.05 μ g/kg, country: Germany⁵⁹⁶, *malting, **after harvest

incidence: 4/99* **, conc. range: 0.03–0.64 μ g/kg, country: Germany⁵⁹⁶, *malting, **after storage

incidence: $11/41^*$, conc. range: 0.05– $4.9 \mu g/kg$ (8 sa), 5– $25 \mu g/kg$ (3 sa, with a maximum of $14 \mu g/kg$), \varnothing conc.: $0.9 \mu g/kg^{**}$, country: Denmark⁶²⁵, *cg, **arithmetic mean incidence: $6/20^*$, conc. range: 0.05– $4.9 \mu g/kg$ (4 sa), 5– $25 \mu g/kg$ (2 sa, with a maximum of $13 \mu g/kg$), \varnothing conc.: $1 \mu g/kg^{**}$, country: Denmark⁶²⁵, *eg, **arithmetic mean see also bread, malt (barley),

Sterigmatocystin

incidence: 2/4* **, conc. range: tr, country: UK⁸⁰⁷, *moldy, **ncac see also cassava, cheese, coffee, maize, nuts (almond), nuts (pecan), nuts (pistachio), oil seed rape, rice, spices, spices (fennel), spices (pepper), wheat

T-2 Toxin

incidence: 4/29*, conc. range: ≤76 μg/kg, Ø conc.: 40 µg/kg, country: Lithuania²⁰³, *ncac incidence: 5/102, conc. range: >20-220 µg/kg, Ø conc.: 85 μg/kg, country: Norway⁴⁶⁶ incidence: 12/24* **, conc. range: 20–2400 µg/kg, ∅ conc.: 450 µg/kg, country: Poland⁵¹¹, *spring, **ncac incidence: 2/49*, conc. range: 22–46 µg/kg, Ø conc.: 34 μg/kg, country: Norway⁵²⁹, *ncac see also beans, beer, bran (oat), bran (wheat), bread, cereals, cereals (breakfast), flakes (oat), flour, flour (maize), flour (wheat), food, grits (maize), maize, nuts (hazelnut), nuts (peanut), oat products, oats, rice, rye, sorghum, spices (curry), spices (ginger), spices (tandoori), sunflower seeds, wheat

T-2 Tetraol

incidence: 2/24*, conc. range: 10–210 μg/kg, Ø conc.: 110 μg/kg, country: Poland⁵¹¹, *spring, **ncac see also bran (wheat), maize, soybeans, wheat

VIOMELLEIN

incidence: 3/4* **, conc. range: tr–600 μg/kg, country: UK⁸⁰⁷, *moldy, **ncac see also oil seed rape, wheat

VIOXANTHIN

incidence: $3/4^*$ **, conc. range: 10– $90 \mu g/kg$, \varnothing conc.: $40 \mu g/kg$, country: UK^{807} , *moldy, **ncac see also oil seed rape, wheat

XANTHOMEGNIN

incidence: 3/4* **, conc. range: tr–450 μg/kg, country: UK⁸⁰⁷, *moldy, **ncac see also oil seed rape, wheat

ZEARALENONE

incidence: 1/7, conc. range: 2-8 μg/kg (1 sa), country: Finland²¹⁹ incidence: 2/2, conc. range: 210-1242 µg/kg, Ø conc.: 726 μg/kg, country: China³⁴² incidence: 2/30, conc. range: 21–30 µg/kg, Ø conc.: 26 µg/kg, country: Finland⁴⁵⁵ incidence: 20/39, conc. range: 40-1416 µg/kg, Ø conc.: 287 μg/kg, country: Korea⁴⁶² incidence: 15/85*, conc. range: <10-170 μg/kg, country: New Zealand⁴⁶⁸, *ncac incidence: 21/28*, conc. range: 3-1581 µg/kg, Ø conc.: 147 μg/kg, country: Korea⁴⁶⁹, *ncac incidence: 29/31*, conc. range: 1-388 μg/kg, Ø conc .: 25.7 μg/kg, country: Korea⁴⁷⁰, *ncac incidence: 3/6* **, conc. range: 1-2 µg/kg, country: Korea⁴⁷⁰, *husked, **ncac incidence: 10/30*, conc. range: 14-171 µg/kg, Ø conc.: 36 μg/kg, country: Korea⁵⁰⁶, *ncac incidence: 18/57* **, conc. range: 27-1132 μg/kg, Ø conc.: 205 μg/kg, country: Korea⁵⁰⁷, *husked and naked, **ncac incidence: 10/37*, conc. range: 40-1416 μg/kg, Ø conc.: 403 μg/kg, country: Korea⁵⁰⁸, *husked and naked incidence: 3/210*, conc. range: 4-21 µg/kg, country: Canada⁵²¹, *ncac incidence: 17/49*, conc. range: 1–5 μg/kg, Ø conc.: 2.6 µg/kg, country: Norway⁵²⁹, *ncac incidence: 101/139*, Ø conc.: 35 μg/kg, country: Japan⁵³⁰, *ncac incidence: $1/3^*$ **, conc.: 6 µg/kg, country: Japan⁵³¹, *polished pressed, **and unknown origin incidence: 1/1* **, conc.: 4 µg/kg, country: Japan⁵³¹, *pearled, **unknown origin incidence: 8/8* **, conc. range: 2–33 μg/kg, Ø conc.: 10 μg/kg, country: Japan⁵³³, *from Scotland, **ncac incidence: 13/18*, conc. range: 2–97 µg/kg, Ø conc.: 23.9 µg/kg, country: Japan⁵³⁵, *ncac

incidence: $6/6^*$ **, conc. range: 4–9 µg/kg, \varnothing conc.: 7 µg/kg, country: Japan⁵³⁶, *from The

Netherlands, **ncac

incidence: 13/20* **, Ø conc.: 5 μg/kg, country: Japan⁵³⁸, *from Argentina, **ncac incidence: 5/13* **, Ø conc.: 8.2 μg/kg, country: Japan⁵³⁸, *from Germany, **ncac incidence: 1/5* **, conc.: 56 μg/kg, country: Japan⁵³⁸, *from Italy, **ncac incidence: 4/4* **, Ø conc.: 18 µg/kg, country: Japan⁵³⁸, *from Nepal, **ncac incidence: 3/3* **, Ø con.: 43 μg/kg, country: Japan⁵³⁸, *from Yemen, **ncac incidence: 5/7* **, conc. range: 0.024-0.45 µg/kg, Ø conc.: 0.1662 μg/kg, country: Germany⁵⁵¹, *from Canada, **ncac incidence: 2/7* **, conc. range: 5.1-5.5 μg/kg, Ø conc.: 5.3 μg/kg, country: Germany⁵⁶², *and unknown origin, **o incidence: 10/17*, conc. range: 105-15,300 µg/ kg, Ø conc.: 2910 µg/kg, country: Japan⁵⁷³, *ncac incidence: $2/5^*$, conc. range: $\leq 3.4 \mu g/kg$, country: France⁷⁷⁶, *cg incidence: 20/137*, conc. range: 100-200 μg/kg (12 sa), >200 μg/kg (8 sa), country: Uruguay⁷⁸⁷, *and malt see also acha, amaranth, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

 $\alpha\text{-}Z\textsc{earalenol}$ incidence: 1/18*, conc.: 5 µg/kg, country: Japan 535 , *ncac

Barley bran

see Bran (barley)

Barley foods

see Food

Barley grits

see Grits (barley)

Barley malt

see Malt (barley)

Batter may contain the following mycotoxins:

Deoxynivalenol

incidence: 1/16* **, conc.: 500 μg/kg, country: USA⁴⁷⁸, *from China, **unfermented incidence: 1/16* **, conc.: 500 μg/kg, country: USA⁴⁷⁸, *from China, **fermented see also acha, barley, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

Fumonisin B₁

incidence: $3/16^*$ **, conc. range: 600-5700 µg/kg, \varnothing conc.: 2400 µg/kg, country: USA⁴⁷⁸, *from China, **unfermented incidence: $3/16^*$ **, conc. range: 600-7200 µg/kg, \varnothing conc.: 2867 µg/kg, country: USA⁴⁷⁸, *from China, **fermented see also arepas, asparagus, barley, beans, beer, bran (maize), bread, cake (rice), cereals, cereals (breakfast), chamomile, chips (maize), chips (tortilla), flakes (corn), flour (maize), food, food (baby), foodstuff, grits (maize), Incaparina, leaves, maize, maize fiber, maize

muffin, maize products, maize silk, maize starch, masa, meal (maize), meal (sorghum), milk, muffin mix, nuts (peanut), pancake, popcorn, rapoko, rice, snacks, sorghum, soybeans, syrup (sorghum), tea, tortillas, wheat

Fumonisin B_2 incidence: $2/16^*$ **, conc. range: $500 \mu g/kg$, \varnothing conc.: $500 \mu g/kg$, country: USA⁴⁷⁸, *from China, **unfermented see also arepas, asparagus, barley, beer, bran (maize), cereals, cereals (breakfast), chips (maize), chips (tortilla), flakes (corn), flour (maize), food (baby), foodstuff, grits (maize), Incaparina, maize, maize fiber, maize starch, masa, meal (maize), muffin mix, pancake, popcorn, rice, snacks, tortillas, wheat

Fumonisin B₃ incidence: 1/16* **, conc.: 900 μg/kg, country: USA⁴⁷⁸, *from China, **fermented see also cereal products, cereals, flour (maize), food (baby), Incaparina, maize, meal (maize), pancake, popcorn, rice, snacks

Bean jam

see Jam (bean)

Beans may contain the following mycotoxins:

μg/kg, country: India³⁹⁸, *mung

AFLATOXIN B₁ incidence: 15/25*, conc. range: tr–2800 μg/kg, country: India²⁹, *mung incidence: 2/145, conc. range: 1–10 μg/kg (2 sa), country: Cuba⁴⁷ incidence: 1/6*, conc.: 1.7 μg/kg, country: Egypt⁶², **Vicia faba L*. incidence: 4/293*, conc. range: 4.7–52.3 μg/kg, Ø conc .: 17.9 μg/kg, country: Japan⁹⁹, *for bean jam incidence: 1/30*, conc.: 125 μg/kg, country: Egypt¹⁴⁴, *Faba incidence: 4/381*, conc. range: 1.4–254 μg/kg, country: Japan¹⁸⁴, *for bean jam incidence: 14/27*, conc. range: 72–1040

incidence: 2/58* **, conc. range: 39-52 µg/kg, Ø conc.: 45.5 μg/kg, country: Brazil⁸¹⁶, *different varieties, **dried incidence: ?/40* ** ***, Ø conc.: 230 μg/kg, country: Taiwan825, *and from Canada, **fungal infected, ***Phaseolus vulgaris see also acha, areca nut, bacon, barley, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drink, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruit products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices

(fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxin B_2

incidence: 1/6*, conc.: 1.5 μg/kg, country: Egypt⁶², **Vicia faba* L.

incidence: 4/293*, conc. range: 0.4–1.5 μg/kg, Ø conc.: 0.7 μg/kg, country: Japan⁹⁹, *for bean jam

incidence: 1/30*, conc.: 12.5 μg/kg, country:

Egypt¹⁴⁴, *Faba incidence: 4/381*, conc. range: 1.2-8.5 µg/kg, country: Japan¹⁸⁴, *for bean jam incidence: ?/40* ** ***, Ø conc.: 160 μg/kg, country: Taiwan825, *and from Canada, **fungal infected, ***Phaseolus vulgaris see also acha, areca nut, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar,

sunflower seeds, wheat, wine

AFLATOXIN G₁

incidence: 2/58* **, conc. range: 4–8 μg/kg, Ø conc.: 6 μg/kg, country: Brazil⁸¹⁶, *different varieties, **dried

incidence: ?/40* ** ***, Ø conc.: 20,370 μg/kg, country: Taiwan825, *and from Canada, **fungal infected, ***Phaseolus vulgaris see also areca nut, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

Aflatoxin G_2

incidence: 2/58* **, conc. range: 21-31 µg/kg, \emptyset conc .: 26 µg/kg, country: Brazil⁸¹⁶, *different varieties, **dried incidence: ?/40* ** ***, Ø conc.: 720 μg/kg, country: Taiwan825, *and from Canada, **fungal infected, ***Phaseolus vulgaris see also areca nut, betel nut, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom),

spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

incidence: 1/17*, conc.: 22 µg/kg, country:

Aflatoxins (B_1, B_2, G_1, G_2)

Guatemala³³, *black incidence: 2/5*, conc. range: 6-20 µg/kg (2 sa, with a maximum of 10 µg/kg), country: Guatemala³⁴, *black incidence: $7/140^*$, \varnothing conc .: 16 µg/kg, max. conc.: 112 µg/kg, country: Thailand163, *mung beans incidence: 10/322, Ø conc.: 213 µg/kg, max. conc.: 1620 µg/kg, country: Thailand¹⁶³ see also barley, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (fig), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

AFLATOXINS (TOTAL) incidence: 4/79*, conc. range: >5.8–10 μg/kg (2 sa), -15 μg/kg (2 sa), country: Switzerland¹³¹, *from Ecuador see also butter, figs, maize, nut cereals, nuts (almond), nuts (brazil), nuts (cashew), nuts ("chico-felix"), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), paste (fig), rice, sunflower seeds

Aflatoxins

incidence: 46*/64, conc. range: 1–100 μg/kg $(30 \text{ sa}), 100-1000 \mu\text{g/kg} (11 \text{ sa}), >1000 (5)$ sa), country: Uganda⁵ incidence: 2/29, conc. range: >30–≤86 µg/kg, country: Philippines³² see also candy (peanut), candy (pistachio), cassava, figs, flour (maize), grain mixtures, grains, maize, maize dough, maize products, melon seeds, millet, nuts, nuts (almond), nuts (brazil), nuts (peanut), nuts (peanut butter), nuts (peanut mix), nuts (peanut products), nuts (pecan), nuts (pistachio), nuts (walnut), nuts and seeds, paste (peanut), paste (pipian), peas, rice, sauce (leaf), snacks, sorghum, spices, spices (chilli), spices (cumin), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper), spices (tandoori), teff, tubers, wheat

Deoxynivalenol

incidence: 2*/3**, conc. range: 3100-6500 μg/kg, country: Taiwan⁵⁴⁶, *grey and/or pink discoloration, **Phaseolus vulgaris L. see also acha, barley, batter, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

Fumonisin B₁

incidence: 2*/3**, conc. range: 1770–2480 µg/kg, country: Taiwan⁵⁴⁶, *grey and/or pink discoloration, ***Phaseolus vulgaris* L. see also arepas, asparagus, barley, batter, beer, bran (maize), bread, cake (rice), cereals, cereals (breakfast), chamomile, chips (maize),

chips (tortilla), flakes (corn), flour (maize), food, food (baby), foodstuff, grits (maize), Incaparina, leaves, maize, maize fiber, maize muffin, maize products, maize silk, maize starch, masa, meal (maize), meal (sorghum), milk, muffin mix, nuts (peanut), pancake, popcorn, rapoko, rice, snacks, sorghum, soybeans, syrup (sorghum), tea, tortillas, wheat

incidence: 4/24*, conc. range: 25-27 µg/kg,

OCHRATOXIN A

country: Bulgaria⁶⁵³, *BEN incidence: 2/28*, conc. range: 25-50 µg/kg, country: Bulgaria⁶⁵³, *con incidence: 4/42, conc. range: 12-22.4 µg/kg, Ø conc.: 14.7 μg/kg, country: Egypt⁷²¹ incidence: 1*/50, conc.: <4 μg/kg, country: UK⁷⁴², *baked incidence: 2/58* **, conc. range: 94-160 μg/kg, Ø conc.: 127 μg/kg, country: Brazil⁸¹⁶, *different varieties, **dried see also barley, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal

(wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

PENICILLIC ACID

incidence: 5/20* **, conc. range: 11–179 μg/kg, Ø conc.: 82 μg/kg, country: USA⁷⁵², *dried, **ncac see also cassava, cheese, maize

DIACETOXYSCIRPENOL

incidence: 2*/3**, conc. range: 3300–9200 µg/kg, country: Taiwan⁵⁴⁶, *grey and/or pink discoloration, ***Phaseolus vulgaris* L. see also beer, bran (wheat), cereals, maize, nuts (peanut), oats, products, rice, soybeans, spices (chilli powder), spices (curry), wheat

T-2 Toxin

incidence: 2*/3**, conc. range: 5500-13,500 µg/kg, country: Taiwan⁵⁴⁶, *grey and/or pink discoloration, ***Phaseolus vulgaris* L. see also barley, beer, bran (oat), bran (wheat), bread, cereals, cereals (breakfast), flakes (oat), flour, flour (maize), flour (wheat), food, grits (maize), maize, nuts (hazelnut), nuts (peanut), oat products, oats, rice, rye,

19 Beefburger

sorghum, spices (curry), spices (ginger), spices (tandoori), sunflower seeds, wheat

ZEARALENONE

incidence: 1/5, conc.: 7 μg/kg, country: Germany⁵²⁰

see also acha, amaranth, barley, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Beef may contain the following mycotoxins:

OCHRATOXIN A

incidence: 1/58, conc.: 0.03 μg/kg, country: Germany⁵⁹⁸

see also barley, beans, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum),

fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liquerice, liquerice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Beefburger may contain the following mycotoxins:

Aflatoxin B₁

incidence: 5/25, conc. range: 8 μg/kg,

country: Egypt¹⁴

see also acha, areca nut, bacon, barley, beans, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed,

Beefburger 20

congressbele, cottonseed, cowpeas, dates, drink, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruit products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

ZEARALENONE

incidence: 3/20, conc. range: 1.6–6.7 µg/kg, \varnothing conc.: 4.8 µg/kg, country: Egypt⁴⁴³ see also acha, amaranth, barley, beans, beer, biscuits, bran (oat), bran (wheat), bread,

cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Beer may contain the following mycotoxins:

Aflatoxin B₁

incidence: 8/150*, conc. range: 0.05–0.13 µg/l, \varnothing conc.: 0.1 µg/l, country: South Africa¹⁸⁸, *sorghum

incidence: $11/94^*$, conc. range: 0.0005-0.0831 µg/l, country: Japan⁶⁴⁷, *from different countries

incidence: 2/22*, conc. range: 0.0005–0.0008 μ g/l, \varnothing conc.: 0.0007 μ g/l, country: Japan⁶⁴⁷, *from different countries

incidence: 7/24*, conc. range: tr–0.069 µg/l, country: Canada⁸⁴⁸, *and from different countries

see also acha, areca nut, bacon, barley, beans, beefburger, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drink, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruit products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice

(mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂

incidence: 5/94*, conc. range: 0.0012–0.0086 μg/l, Ø conc.: 0.0029 μg/l, country: Japan⁶⁴⁷, *from different countries incidence: 3/24*, conc. range: tr–0.074 μg/l, country: Canada⁸⁴⁸, *and from different countries

see also acha, areca nut, beans, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga

Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Aflatoxin

incidence: 2/6*, conc. range: 200–400 μg/l, \varnothing conc.: 300 μg/l, country: South Africa⁷⁸⁰, *commercial, Utshwala incidence: 1/11*, conc.: 12 μg/l, country: South Africa⁷⁸⁰, *home-brewed, Isiqatha see also barley, bran (rice), flour (maize), injera, jars, kocho, maize, maize roti, malt (barley), malt (maize), nuts (peanut), nuts (peanut butter), nuts (pistachio), oil (peanut), paste (pepper, red), rice, spices (pepper)

Aflatoxins (B₁, G₁) incidence: 2/2*, conc. range: 253–262 µg/l, country: Nigeria⁴, *burukutu incidence: 2/2*, conc. range: 92–142 µg/l, country: Nigeria⁴, *pito see also chestnut, nuts (peanut), nuts (peanut butter)

Deoxynivalenol

incidence: 20/50, conc. range: 4–221 μ g/l, \varnothing conc.: 35.6 μ g/kg, country: Argentina³³⁴ incidence: 3/51* **, conc. range: 26–41 μ g/l, \varnothing conc.: 34.3 μ g/kg, country:

The Netherlands³⁹³, *different kinds of beer, **from different EU-countries

incidence: $10/36^*$, conc. range: $1-5.3 \mu g/l$, \varnothing conc.: $3.9 \mu g/l$, country: Korea⁴⁷¹, *partly imported

incidence: 2/3* **, conc. range: 6.3–8.8 μg/l, Ø conc.: 7.6 μg/l, country: Korea⁴⁷¹, *partly imported, **draft

incidence: $2/3^*$ **, conc. range: $18-23 \mu g/l$, \varnothing conc.: $20.5 \mu g/l$, country: Korea⁴⁷¹, *partly imported, **nonalcoholic

incidence: 9/196, conc. range: 70–720 µg/l, \varnothing conc.: 303.3 µg/l, country: Germany⁴⁹² incidence: 19/31*, conc. range: 0.3–50.3 µg/l, Canada⁵²², *includes Lager, Ale, dry, light, nonalcoholic

incidence: $8/17^*$ **, conc. range: 1.1–15.8 µg/l, \varnothing conc.: 4.8 µg/l, Canada⁵²², *includes Pilsener, Lager, light, premium beer, **imported

incidence: 27/40*, conc. range: 6–22 μg/l, country: Belgium⁵⁵⁴, *c

incidence: 32/40*, conc. range: 6–14 μg/l, country: Belgium⁵⁵⁴, *o

incidence: 1/49, conc.: 20 μg/l, country: France⁷⁸⁶

see also acha, barley, batter, beans, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

Fumonisin B₁

incidence: 20/46, conc. range: 0.2–52.8 µg/l, Ø conc.: 4.8 µg/l, country: Canada⁴⁰⁶ see also arepas, asparagus, barley, batter, beans, bran (maize), bread, cake (rice),

cereals, cereals (breakfast), chamomile, chips (maize), chips (tortilla), flakes (corn), flour (maize), food, food (baby), foodstuff, grits (maize), Incaparina, leaves, maize, maize fiber, maize muffin, maize products, maize silk, maize starch, masa, meal (maize), meal (sorghum), milk, muffin mix, nuts (peanut), pancake, popcorn, rapoko, rice, snacks, sorghum, soybeans, syrup (sorghum), tea, tortillas, wheat

Fumonisin B₂

incidence: 7/46, conc. range: 0.4– $11.5 \mu g/l$, \varnothing conc.: 2 $\mu g/l$, country: Canada⁴⁰⁶ see also arepas, asparagus, barley, batter, bran (maize), cereals, cereals (breakfast), chips (maize), chips (tortilla), flakes (corn), flour (maize), food (baby), foodstuff, grits (maize), Incaparina, maize, maize fiber, maize starch, masa, meal (maize), muffin mix, pancake, popcorn, rice, snacks, tortillas, wheat

Fumonisins (B_1, B_2)

incidence: 25/29*, conc. range: 0.3–12.7 μg/l, Ø conc.: 4 μg/l, country: USA³⁶⁸ see also flour (maize), food (infant), maize, meal (maize), noodles, rice, spice powder, spices (chilli pickle), spices (curry), spices (curry paste), spices (curry powder), spices (tandoori)

Fumonisins

incidence: 14/32, conc. range: 4.8–85.5 μg/l, country: Spain⁴¹⁵ see also bread, cereal (infant), chips (tortilla), flakes (corn), flour (maize), grits (maize), maize, maize pops cereal, maize products, maize starch, maize (infant cream corn), meal (maize), muffin mix, pasta, popcorn, porridge, products, sorghum, tortillas

Nivalenol

incidence: $10/36^*$, conc. range: $<1-20 \mu g/l$, country: Korea⁴⁷¹, *partly imported incidence: $1/2^*$ **, conc.: 8.8 $\mu g/l$, country: Korea⁴⁷¹, *partly imported, **draft incidence: $6/6^*$ **, conc. range: $3.3-38 \mu g/l$, \varnothing conc.: $18 \mu g/l$, country: Korea⁴⁷¹, *partly imported, **light

incidence: 1/3* **, conc.: 9 µg/l, country: Korea⁴⁷¹, *partly imported, **nonalcoholic incidence: 1/31*, conc.: 0.12 µg/l, Canada⁵²², *includes Lager, Ale, dry, light, nonalcoholic incidence: 2/17* **, conc. range: 0.1-0.84 μg/l, Ø conc.: 0.5 μg/l, Canada⁵²², *includes Pilsener, Lager, light, premium beer, **imported see also barley, biscuits, bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, germ (wheat), grits (maize), grits (wheat), Job's-tears, maize, malt (barley), meal (millet), millet, noodles, oat products, oats, rice, rye, snacks, sorghum, soybeans, spices (chilli sauce), spices (curry), spices (curry paste), spices (curry powder), spices (garlic), spices (ginger), spices (tandoori), wheat

OCHRATOXIN A

incidence: 8/8*, conc. range: <0.05–0.17 μg/l, country: Germany²⁰², *dark incidence: 1/3, conc.: 0.06 μg/l, country:

Germany²⁰² incidence: 19/22*, conc. range: <0.05–0.26 µg/l, country: Germany²⁰², *Pilsener

incidence: 2/2*, conc. range: <0.05–0.16 μg/l, country: Germany²⁰², *wheat

incidence: 31/40*, conc. range: 0.019–0.198 μg/l, country: Belgium⁵⁵⁴, *c

incidence: 40/40*, conc. range: 0.018–1.134 µg/l, country: Belgium⁵⁵⁴, *o

incidence: 45/54*, conc. range: \leq 0.126 µg/l, \varnothing conc.: 0.036 µg/l, country: Germany⁵⁸¹, *strong

incidence: $2/8^*$, conc. range: $\leq 0.047 \, \mu g/l$, \varnothing conc.: $0.03 \, \mu g/l$, country: Germany⁵⁸¹, *light incidence: $13/24^*$, conc. range: $\leq 0.035 \, \mu g/l$, \varnothing conc.: $0.02 \, \mu g/l$, country: Germany⁵⁸¹, *non-alcoholic

incidence: $4/6^*$, conc. range: $\leq 0.019 \ \mu g/l$, \varnothing conc.: $0.017 \ \mu g/l$, country: Germany⁵⁸¹, *diet incidence: $14/30^*$, conc. range: $\leq 0.081 \ \mu g/l$, \varnothing conc.: $0.029 \ \mu g/l$, country: Germany⁵⁸¹, *diet

incidence: 25/31*, conc. range: \leq 0.123 µg/l, \varnothing conc.: 0.032 µg/kg, country: Germany⁵⁸¹, *Exportbier

incidence: $101/135^*$, conc. range: ≤ 0.137 µg/l, \varnothing conc.: 0.033 µg/kg, country: Germany⁵⁸¹, *Pilsener

incidence: 23/30*, conc. range: \leq 0.293 µg/l, \varnothing conc.: 0.039 µg/l, country: Germany⁵⁸¹, *wheat

incidence: 3/4* **, conc. range: <0.3–1.04 μg/l, country: Germany⁵⁹⁰, *strong, **wheat incidence: 1/3*, conc.: 0.3 μg/l, country: Germany⁵⁹⁰, *wheat

incidence: 12/22*, conc. range: <0.3–1.53 μg/l, country: Germany⁵⁹⁰, *strong incidence: 2/46, conc. range: 0.2–0.3 μg/l, country: Korea⁵⁹⁹

incidence: $42/150^*$, conc. range: $0.1-8.1 \mu g/l$, country: Turkey⁶⁰⁸, *and imported incidence: $14/21^*$, conc. range: $\leq 0.205 \mu g/l$, country: Spain⁶⁰⁹, *alcoholic

incidence: 10/10*, conc. range: ≤0.152 μg/l, Ø conc.: 0.018 μg/l, country: Spain⁶⁰⁹, *nonalcoholic

incidence: 60/62, conc. range: 0.01-0.185 μg/l, Ø conc.: 0.033 μg/l, country: Belgium⁶¹² incidence: 20/20*, conc. range: 0.01-0.087 $\mu g/l$, \varnothing conc.: 0.034 $\mu g/l$, country: Belgium⁶¹², *from different European countries, Mexico incidence: 4/16*, conc. range: 0.05-0.09 μg/l (4 sa), country: $Germany^{62\bar{3}}$, *draught incidence: 59/133*, conc. range: 0.05-0.09 μg/l (40 sa), 0.1–0.19 μg/l (14 sa), 0.2–0.49 μg/l (5 sa), country: Germany⁶²³, *entire incidence: 13/32*, conc. range: 0.05-0.09 μg/l (9 sa), 0.1-0.19 μg/l (3 sa), 0.2-0.49 μg/l (1 sa), country: Germany⁶²³, *strong incidence: 4/12* **, conc. range: 0.05-0.09 $\mu g/l$ (3 sa), 0.1-0.19 $\mu g/l$ (1 sa), country: Germany⁶²³, *entire, **wheat incidence: 21/21, conc. range: \leq 0.16 µg/l, \varnothing conc.: 0.049 µg/l, country: Denmark⁶²⁴ incidence: $5/66^*$, conc. range: 0.1 µg/l, Ø conc.: 0.1 µg/l, country: Germany⁶⁴⁰, *entire incidence: 14/40*, conc. range: 0.1-1.5 µg/l, country: Germany⁶⁴⁰, *strong incidence: 86/94*, conc. range: 0.0012-0.0662 μg/l, country: Japan⁶⁴⁷, *from different countries

incidence: 21/22*, conc. range: 0.0022–0.0448 μ g/l, country: Japan⁶⁴⁷

incidence: $26/41^*$, conc. range: $\leq 0.2 \,\mu g/l$, country: Canada⁶⁶⁰, *and imported incidence: 2/107*, conc. range: 0.051-0.1 µg/l (2 sa), country: Canada⁶⁶⁴, *and from different countries? incidence: 29/30*, conc. range: 0.005-0.075 μg/l, country: Spain⁶⁷⁹, *alcoholic incidence: 8/8*, conc. range: 0.014-0.024 µg/l, Ø conc.: 0.018 μg/l, country: Spain⁶⁷⁹, *nonalcoholic incidence: 38/38* **, conc. range: 0.008-0.121 $\mu g/l$, \varnothing conc.: 0.026 $\mu g/l$, country: Spain⁶⁷⁹, *from different countries, **alcoholic incidence: 4/4* **, conc. range: 0.01-0.024 $\mu g/l$, \varnothing conc.: 0.014 $\mu g/l$, country: Spain⁶⁷⁹, *from different countries, **nonalcoholic incidence: 3/10, conc. range: 0.02-0.022 µg/l, Ø conc.: 0.021 μg/l, country: Italy⁶⁸⁹ incidence: 27/51*, conc. range: 0.01-0.135 μ g/l, \varnothing conc .: 0.036 μ g/l, country: Italy⁶⁸⁹, *imported incidence: 17/35*, conc. range: 0.01-0.1 μg/l, Ø conc.: 0.031 μg/l, country: Italy⁶⁸⁹, *<6% alcohol incidence: 13/26*, conc. range: 0.01-0.135 $\mu g/l$, \varnothing conc.: 0.04 $\mu g/l$, country: Italy⁶⁸⁹, *>6% alcohol incidence: 8/18*, conc. range: 0.01-0.079 µg/l, Ø conc.: 0.033 μg/l, country: Italy⁶⁸⁹, *pure malt incidence: 7/7*, conc. range: 0.01–0.033 μg/l, country: Switzerland⁶⁹², *pale incidence: 4/11*, conc. range: 1.5-2340 μg/l, Ø conc.: 634 μg/l, country: South Africa⁷⁸⁰, *home-brewed, Isiqatha incidence: $3/11^*$, conc. range: 60–876 µg/l, \varnothing conc.: 379 µg/l, country: South Africa⁷⁸⁰, *home-brewed, Umgombothi incidence: 3/7*, conc. range: 150-1100 µg/l, Ø conc.: 480 μg/l, country: South Africa⁷⁸⁰, *home-brewed, Infulamfula incidence: 4/37, conc. range: 5–110 µg/l, Ø conc.: 56.2 µg/l, country: France⁷⁸⁶ incidence: 5/9, conc. range: 0.01-0.026 μg/l, Ø conc.: 0.0196 μg/l, country: Denmark⁸⁷⁰ see also barley, beans, beef, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat,

butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

25 Berries (mulberry)

DIACETOXYSCIRPENOL

incidence: 5/49, conc. range: \leq 35 µg/l, country: France⁷⁸⁶ see also beans, bran (wheat), cereals, maize, nuts (peanut), oats, products, rice, soybeans, spices (chilli powder), spices (curry), wheat

T-2 Toxin

incidence: 3/49, conc. range: ≤42 µg/l, country: France⁷⁸⁶ see also barley, beans, bran (oat), bran (wheat), bread, cereals, cereals (breakfast), flakes (oat), flour, flour (maize), flour (wheat), food, grits (maize), maize, nuts (hazelnut), nuts (peanut), oat products, oats, rice, rye, sorghum, spices (curry), spices (ginger), spices (tandoori), sunflower seeds, wheat

ZEARALENONE

incidence: 28/46*, conc. range: 12.5-200 μg/l, Ø conc.: 81.8 μg/l, country: Nigeria⁵⁰³, *pito incidence: 4/11*, conc. range: 130-426 µg/l, Ø conc.: 250 μg/l, country: South Africa⁷⁸⁰, *home-brewed, Isiqatha incidence: 2/11*, conc. range: 3–8 µg/l, Ø conc.: 5.5 µg/l, country: South Africa⁷⁸⁰, *home-brewed, Umqombothi incidence: 1/7*, conc.: 2.6 µg/l, country: South Africa⁷⁸⁰, *home-brewed, Infulamfula incidence: ?/23*, conc. range: 90-4600 µg/l, country: Zambia⁷⁹⁷, *opaque maize see also acha, amaranth, barley, beans, beefburger, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry

paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Berries (blueberry) may contain the following mycotoxins:

PATULIN

incidence: 1/12, conc.: 21 µg/kg (pulp), country: Sweden⁴⁸⁰ see also apple cider, apple flavor, apples (stewed fruit), berries (lingonberry), berries (mulberry), berries (raspberry), berries (strawberry), cassava, cheese, food (baby), fruit products, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (pear), fruits (plum), jam, jam (apple), juice, juice (apple), juice (apple-acerola), juice (apple, concentrate), juice (cherry), juice (currant), juice (fruit), juice (grape), juice (orange), juice (peach), juice (pear), must, pulp (plum), syrup (apple), vinegar

Berries (lingonberry) may contain the following mycotoxins:

PATULIN

incidence: 1/2, conc.: 265 µg/kg (pulp), country: Sweden⁴⁸⁰ see also apple cider, apple flavor, apples (stewed fruit), berries (blueberry), berries (mulberry), berries (raspberry), berries (strawberry), cassava, cheese, food (baby), fruit products, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (pear), fruits (plum), jam, jam (apple), juice, juice (apple), juice (apple-acerola), juice (apple, concentrate), juice (cherry), juice (currant), juice (fruit), juice (grape), juice (orange), juice (peach), juice (pear), must, pulp (plum), syrup (apple), vinegar

Berries (mulberry) may contain the following mycotoxins:

PATULIN

incidence: 4/6*, conc. range: 32–426 µg/kg, \varnothing conc.: 199 µg/kg, country: Turkey⁷¹⁹, *white incidence: 7/10*, conc. range: 6.8–157.4 µg/kg, \varnothing conc.: 67 µg/kg, country: Turkey⁷¹⁹, *black

Berries (mulberry) 26

see also apple cider, apple flavor, apples (stewed fruit), berries (blueberry), berries (lingnonberry), berries (raspberry), berries (strawberry), cassava, cheese, food (baby), fruit products, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (pear), fruits (plum), jam, jam (apple), juice, juice (apple), juice (apple-acerola), juice (apple, concentrate), juice (cherry), juice (currant), juice (fruit), juice (grape), juice (orange), juice (peach), juice (pear), must, pulp (plum), syrup (apple), vinegar

Berries (raspberry) may contain the following mycotoxins:

PATULIN

incidence: 3/5, conc. range: 48–746 μg/kg, Ø conc.: 326 μg/kg, country: Turkey⁷¹⁹ see also apple cider, apple flavor, apples (stewed fruit), berries (blueberry), berries (lingnonberry), berries (mulberry), berries (strawberry), cassava, cheese, food (baby), fruit products, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (pear), fruits (plum), jam, jam (apple), juice, juice (apple), juice (apple-acerola), juice (apple, concentrate), juice (cherry), juice (currant), juice (fruit), juice (grape), juice (orange), juice (peach), juice (pear), must, pulp (plum), syrup (apple), vinegar

Berries (strawberry) may contain the following mycotoxins:

OCHRATOXIN A

incidence: 4/10*, conc. range: 0.22–1.44 µg/kg, country: Germany²⁸⁹, *moldy see also barley, beans, beef, beer, biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food

(baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rve), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts(walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

PATULIN

incidence: 8/10, conc. range: 3.2–572 μg/kg, Ø conc.: 154 μg/kg, country: Turkey⁷¹⁹ see also apple cider, apple flavor, apples (stewed fruit), berries (blueberry), berries (lingnonberry), berries (mulberry), berries (raspberry), cassava, cheese, food (baby), fruit products, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (pear), fruits (plum), jam, jam (apple), juice, juice (apple), juice (apple, juice (apple, 27 Betel nut

concentrate), juice (cherry), juice (currant), juice (fruit), juice (grape), juice (orange), juice (peach), juice (pear), must, pulp (plum), syrup (apple), vinegar

Betel nut may contain the following mycotoxins:

Aflatoxin B_1

incidence: 12/32, conc. range: 18-208 µg/kg, Ø conc.: 94.2 μg/kg, country: India²⁷ see also acha, areca nut, bacon, barley, beans, beefburger, beer, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drink, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruit products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi),

spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxin B_2

incidence: 6/32, conc. range: 10-528 µg/kg, Ø conc.: 24.3 µg/kg, country: India²⁷ see also acha, areca nut, beans, beer, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job'stears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

AFLATOXIN G₁ incidence: 9/32, conc. range: tr–81 μg/kg, country: India²⁷ see also areca nut, beans, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice

Betel nut 28

(apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

AFLATOXIN G₂

incidence: 3/32, conc. range: tr–<20 μg/kg, country: India²⁷

see also areca nut, beans, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, raisins, rice, sesame seeds, shovu, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine see also areca nut

Bhutanese cheese

see Cheese

Biscuits may contain the following mycotoxins:

Deoxynivalenol

incidence: 49/60, conc. range: 10–100 μg/kg (48 sa), 315 μg/kg (1 sa), country: UK⁸³⁶

see also acha, barley, batter, beans, beer, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

Nivalenol

incidence: 11/60, conc. range: 10–100 μ g/kg (11 sa, with a maximum of 24 μ g/kg), country: UK⁸³⁶

see also barley, beer, bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, germ (wheat), grits (maize), grits (wheat), Job's-tears, maize, malt (barley), meal (millet), millet, noodles, oat products, oats, rice, rye, snacks, sorghum, soybeans, spices (chilli sauce), spices (curry), spices (curry paste), spices (curry powder), spices (garlic), spices (ginger), spices (tandoori), wheat

OCHRATOXIN A

incidence: 82/102, conc. range: \leq 3.814 µg/kg, country: Germany⁵⁹²

incidence: $65/67^*$, conc. range: $\le 0.39 \mu g/kg$, country: Germany⁵⁹², *with chocolate incidence: 1/9, conc. range: $0.2-0.49 \mu g/kg$ (1 sa), country: Germany⁶²³

incidence: 3/11*, conc. range: 0.1–0.19 μg/kg (2 sa), 0.5–1.49 μg/kg (1 sa), country: Germany⁶²³, *salted

incidence: $10/18^*$, conc. range: 0.2–0.5 µg/kg (6 sa), 0.6–1 µg/kg (2 sa), 4.1–7 µg/kg (2 sa, with a maximum of 6.4 µg/kg), country: UK⁷⁴⁰, *raw materials

see also barley, beans, beef, beer, berries (strawberry), bran, bran (barley), bran (oat),

29 Blue cheese dressing

bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts(hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts(walnut), oats, oil (olive),oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

ZEARALENONE

incidence: 2/60, conc. range: 10.7-11.8 µg/kg, \varnothing conc.: 11.3 µg/kg, country: UK⁸³⁶ see also acha, amaranth, barley, beans, beefburger, beer, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rve), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Black currant juice

see Juice (currant)

Black pepper

see Spices (pepper)

Black pudding

see Pig (black pudding)

Black tea

see Tea

Bleu des causses cheese

see Cheese

Blueberries

see Berries (blueberry)

Blue cheese

see Cheese (blue)

Blue cheese dressing

see Cheese (blue)

Bondakaledkai 30

Bondakaledkai may contain the following mycotoxins:

Aflatoxin B_1

incidence: 22/54, conc. range: 3–1500 μ g/kg, country: India¹⁴⁸

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drink, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruit products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian

cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂

incidence: 14/54, conc. range: 3–370 μg/kg, country: India¹⁴⁸ see also acha, areca nut, beans, beer, betel

nut, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans,

spices, spices (ammi), spices (cardamom),

spices (chilli), spices (chilli powder), spices

(coriander), spices (cumin), spices (fennel),

(mustard), spices (nutmeg), spices (paprika),

spices (pepper), spices (pepper, cayenne),

spices (turmeric), sugar, sunflower seeds,

spices (fenugreek), spices (garlic), spices

(ginger), spices (Indian cassia), spices

Bran may contain the following mycotoxins:

ALTERNARIOL

wheat, wine

incidence: 2/10, conc. range: ≤310 µg/kg, country: Egypt²⁹¹ see also fruits (apple), fruits (mandarin fruit), juice (apple, concentrate), olives, spices (pepper), sunflower seeds, tomatoes, wheat

31 Bran (barley)

Alternariol Methyl Ether incidence: 1/10, conc.: 460 μg/kg, country: Egypt²⁹¹

see also barley, fruits (apple), fruits (Mandarin fruit), fruits (melon), juice (apple, concentrate), olives, ragi, sorghum, spices (pepper), sunflower seeds, tomatoes, wheat

OCHRATOXIN A

incidence: 19/30, conc. range: 0.1–0.19 μ g/kg (6 sa), 0.2–0.49 μ g/kg (6 sa), 0.5–1.49 μ g/kg (4 sa), 1.5–9.99 μ g/kg (3 sa), country: Germany⁶²³

incidence: 12/31*, conc. range: 1-5 µg/kg (12 sa, with a maximum of 4.9 µg/kg), country: UK⁶³⁶, *and from different countries? see also barley, beans, beef, beer, berries (strawberry), biscuits, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts(hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Tenuazonic Acid incidence: 4/10, conc. range: ≤200.5 μg/kg, country: Egypt²⁹¹ see also cassava, fruits (mandarin fruit), maize, olives, pulp (tomato), ragi, rice, sorghum, spices (pepper), sunflower seeds, tomato purée, tomatoes, wheat

Bran (barley) may contain the following mycotoxins:

Ochratoxin A

incidence: 5/5*, conc. range: 720–1950 μ g/kg, \varnothing conc.: 1156 μ g/kg, country: Poland⁵⁸⁵, *ncac

see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food

Bran (barley) 32

(infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts(hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Bran (maize) may contain the following mycotoxins:

Fumonisin B₁

incidence: 5/5, conc. range: $60-330 \mu g/kg$, \varnothing conc.: 192 $\mu g/kg$, country: USA⁴¹⁰ see also arepas, asparagus, barley, batter, beans, beer, bread, cake (rice), cereals, cereals (breakfast), chamomile, chips (maize), chips (tortilla), flakes (corn), flour (maize), food,

food (baby), foodstuff, grits (maize), Incaparina, leaves, maize, maize fiber, maize muffin, maize products, maize silk, maize starch, masa, meal (maize), meal (sorghum), milk, muffin mix, nuts (peanut), pancake, popcorn, rapoko, rice, snacks, sorghum, soybeans, syrup (sorghum), tea, tortillas, wheat

Fumonisin B₂

incidence: 4/5, conc. range: 10–70 μg/kg, Ø conc.: 35 μg/kg, country: USA⁴¹⁰ see also arepas, asparagus, barley, batter, beer, cereals, cereals (breakfast), chips (maize), chips (tortilla), flakes (corn), flour (maize), food (baby), foodstuff, grits (maize), Incaparina, maize, maize fiber, maize starch, masa, meal (maize), muffin mix, pancake, popcorn, rice, snacks, tortillas, wheat

Fumonisins (B₁, B₂, B₃) incidence: 12/12, conc. range: 1500–3200 μ g/kg, \varnothing conc.: 2075 μ g/kg, country: USA³⁷⁰ see also cereals (breakfast), flour, flour (maize), germ (maize), grains, grits (maize), maize, maize-based thickeners, popcorn, snacks, tortillas

Bran (oat) may contain the following mycotoxins:

Deoxynivalenol

incidence: 3/7, conc. range: 14–97 μg/kg, Ø conc.: 46 μg/kg, country: Germany⁵²⁰ see also acha, barley, batter, beans, beer, biscuits, bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli

33 Bran (oat)

powder), spices (coriander), spices (garlic), spices (ginger), wheat

15-Acetyldeoxynivalenol

incidence: 1/7, conc.: 16 $\mu g/kg$, country: Germany⁵²⁰

see also barley, bran (wheat), cereals (breakfast), flour (maize), flour (wheat), food, grits (maize), maize, noodles, oat products, oats, snacks, wheat

HT-2 Toxin

incidence: 7/7, conc. range: 5–18 μ g/kg, \varnothing conc.: 9 μ g/kg, country: Germany⁵²⁰ see also barley, bran (wheat), bread, cereal (baby), cereals, cereals (breakfast), flakes (oat), flour (maize), flour (wheat), food, food (baby), germ (wheat), grits (maize), groats (oat), maize, noodles, nuts (hazelnut), oat products, oats, products, pumpkin seeds, rye, spices (chilli powder), spices (curry), sunflower seeds, wheat

OCHRATOXIN A

incidence: 1/14, conc.: 0.1 μg/kg, country: Germany⁶⁴⁰

incidence: 14/26, conc. range: \leq 0.33 µg/kg, \varnothing conc.: 0.089 μg/kg, country: Germany⁶⁹⁰ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds,

liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

T-2 Toxin

incidence: 3/7, conc. range: $6-9 \mu g/kg$, \varnothing conc.: $6 \mu g/kg$?, country: Germany⁵²⁰ see also barley, beans, bran (oat), bran (wheat), bread, cereals, cereals (breakfast), flakes (oat), flour, flour (maize), flour (wheat), food, grits (maize), maize, nuts (hazelnut), nuts (peanut), oat products, oats, rice, rye, sorghum, spices (curry), spices (ginger), spices (tandoori), sunflower seeds, wheat

Zearalenone

incidence: 3/7, conc. range: 2–18 μg/kg, Ø conc.: 7 μg/kg, country: Germany⁵²⁰ see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (wheat), bread, cake/muffin mixes, cereal (baby),

Bran (oat) 34

cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Bran (rice) may contain the following mycotoxins:

Aflatoxin

incidence: 1/2*, conc.: 26 μg/kg, country: Nigeria¹⁰, *ncac see also barley, beer, flour (maize), injera, jars, kocho, maize, maize roti, malt (barley), malt (maize), nuts (peanut), nuts (peanut butter), nuts (pistachio), oil (peanut), paste (pepper, red), rice, spices (pepper)

Bran (wheat) may contain the following mycotoxins:

incidence: 16/24, conc. range: 101-1000

μg/kg (8 sa), 1001-5000 μg/kg (4 sa), >5001

Deoxynivalenol

µg/kg (4 sa), country: Portugal³¹⁵ incidence: 16/16, conc. range: ≤2000 µg/kg, country: Germany⁴³² incidence: 2/17, conc. range: 50−80 µg/kg, Ø conc.: 65 µg/kg, country: Poland⁴³⁹ incidence: 5/5, conc. range: 319−389 µg/kg, Ø conc.: 360 µg/kg, country: Germany⁵²⁰ incidence: 1/2*, conc.: 45 µg/kg, country: Papua, New Guinea⁵⁷⁴, *from Australia see also acha, barley, batter, beans, beer, biscuits, bran (oat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips

(maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

15-Acetyldeoxynivalenol

incidence: 1/5, conc.: 11 μg/kg, country: Germany⁵²⁰

see also barley, bran (oat), cereals (breakfast), flour (maize), flour (wheat), food, grits (maize), maize, noodles, oat products, oats, snacks, wheat

HT-2 Toxin

incidence: 5/5, conc. range: 5–33 μg/kg, Ø conc.: 13 μg/kg, country: Germany⁵²⁰ see also barley, bran (oat), bread, cereal (baby), cereals, cereals (breakfast), flakes (oat), flour (maize), flour (wheat), food, food (baby), germ (wheat), grits (maize), groats (oat), maize, noodles, nuts (hazelnut), oat products, oats, products, pumpkin seeds, rye, spices (chilli powder), spices (curry), sunflower seeds, wheat

Nivalenol

incidence: 15/16, conc. range: ≤120 μg/kg, country: Germany⁴³² incidence: 5/17, conc. range: 100–240 μg/kg, country: Poland⁴³⁹ incidence: 5/5, conc. range: 21–65 μg/kg, Ø conc.: 37 μg/kg, country: Germany⁵²⁰ incidence: 1/2*, conc.: 19 μg/kg, country: Papua, New Guinea⁵⁷⁴, *from Australia see also barley, beer, biscuits, bread, cake, cereal (baby), cereals, cereals (breakfast), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, germ (wheat), grits (maize), grits (wheat), Job's-tears, maize, malt (barley), meal (millet), millet, noodles,

35 Bran (wheat)

oat products, oats, rice, rye, snacks, sorghum, soybeans, spices (chilli sauce), spices (curry), spices (curry paste), spices (curry powder), spices (garlic), spices (ginger), spices (tandoori), wheat

OCHRATOXIN A

incidence: 3/5, conc. range: $0.2-0.8~\mu g/kg$, \varnothing conc.: $0.4~\mu g/kg$, country: Switzerland⁵⁷⁸ incidence: $74/120^*$, conc. range: $0.05-4.9~\mu g/kg$ (72 sa), $5-25~\mu g/kg$ (2 sa, with a maximum of 12 $\mu g/kg$), \varnothing conc.: $0.8~\mu g/kg^{**}$, country: Denmark⁶²⁵, *cg, **arithmetic mean incidence: $15/22^*$, conc. range: $0.05-4.9~\mu g/kg$ (15 sa, with a maximum of $2.6~\mu g/kg$), \varnothing conc.: $0.6~\mu g/kg^{**}$, country: Denmark⁶²⁵, *eg, **arithmetic mean

incidence: 1/41, conc.: 0.1 μg/kg, country: Germany⁶⁴⁰

incidence: 3/25, conc. range: \leq 1.59 µg/kg, \varnothing conc.: 0.218 µg/kg, country: Germany⁶⁹⁰ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk

(human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

DIACETOXYSCIRPENOL

incidence: 1/17, conc.: 50 μg/kg, country: Poland⁴³⁹

see also beans, beer, cereals, maize, nuts (peanut), oats, products, rice, soybeans, spices (chilli powder), spices (curry), wheat

T-2 Toxin

incidence: 1/17, conc.: 100 μg/kg, country: Poland⁴³⁹

incidence: 1/5, conc.: 6 μg/kg, country: Germany⁵²⁰

see also barley, beans, beer, bran (oat), bread, cereals, cereals (breakfast), flakes (oat), flour, flour (maize), flour (wheat), food, grits (maize), maize, nuts (hazelnut), nuts (peanut), oat products, oats, rice, rye, sorghum, spices (curry), spices (ginger), spices (tandoori), sunflower seeds, wheat

T-2 Tetraol

incidence: 3/5, conc. range: 11–15 µg/kg, Ø conc.: 14 µg/kg, country: Germany⁵²⁰ see also barley, maize, soybeans, wheat

Bran (wheat) 36

ZEARALENONE

incidence: 4/5, conc. range: 3–67 μg/kg, Ø conc.: 29 µg/kg, country: Germany⁵²⁰ see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Brazil nuts

see Nuts (Brazil)

Aflatoxin B_1

Bread may contain the following mycotoxins:

country: Germany⁶⁷, *moldy, **whole meal wheat incidence: 2*/18**, conc. range: 20–25 μg/kg, Ø conc.: 22.5 μg/kg, country: Germany⁶⁷, *moldy, **white incidence: 1*/14** ***, conc.: 10 μg/kg, country: Germany⁶⁷, *moldy, **80% wheat flour, 20% rye flour, ***German see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drink, figs, fish, flakes (corn), flour, flour

incidence: 4*/18**, conc. range: 5-60 μg/kg,

(gram), flour (maize), flour (wheat), food, food (infant), fruit products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXINS (B_1 , B_2 , G_1 , G_2) incidence: $1/4^*$, conc.: 3.3 µg/kg, country: UK⁷³², *nan see also barley, beans, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts

(brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (fig), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

DEOXYNIVALENOL

incidence: 1/40, conc.: 170 μg/kg, country: Egypt⁴²⁷

incidence: 4/4*, conc. range: 269–384 μg/kg, country: Argentina⁵⁰⁵, *homemade incidence: 10/12*, conc. range: 198–436 μg/kg, country: Argentina⁵⁰⁵, *French incidence: 1/1*, conc.: 378 μg/kg, country: Argentina⁵⁰⁵, *bran

incidence: $80/96^*$, conc. range: $15-788~\mu g/kg$, \varnothing conc.: $92~\mu g/kg$, country: Germany⁵¹⁷, *and related products

incidence: 71/74* ***, conc. range: 15–690 µg/kg, \varnothing conc.: 184 µg/kg, country: Germany⁵¹⁸, *c, **includes rye, mixed rye, wheat, mixed wheat bread incidence: 22/27* ***, conc. range: 15–224 µg/kg, \varnothing conc.: 62 µg/kg, country: Germany⁵¹⁸, *o, **includes rye, mixed rye, wheat, mixed wheat bread

incidence: 20/25, conc. range: \leq 240 µg/kg, country: USA⁵⁴⁵

incidence: ?/4*, conc. range: 8–28 μg/kg, country: UK⁷³², *pitta

incidence: ?/4*, conc. range: 6-10 μg/kg,

country: UK⁷³², *chapatti

incidence: ?/4*, conc. range: 5–12 μg/kg,

country: UK⁷³², *nan

incidence: 57/60, conc. range: $10-100 \mu g/kg$ (47 sa), $>100-250 \mu g/kg$ (9 sa), $366 \mu g/kg$ (1 sa), country: UK^{836}

see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), cake, cereal

(baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

3-Acetyldeoxynivalenol

incidence: 1/96*, conc.: 11 μg/kg, country: Germany⁵¹⁷, *and related products incidence: 8/101*, conc. range: 11–73 μg/kg, Ø conc.: 42 μg/kg, country: Germany⁵¹⁸, *includes rye, mixed rye, wheat, mixed wheat bread

see also barley, cereals, cereals (breakfast), flakes (oat), flour (maize), flour (wheat), food, food (baby), grits (maize), maize, oat products, oats, rice, rye, snacks, wheat

ERGOCORNINE

incidence: 2?/3*, conc. range: 1.2–2 µg/kg, \varnothing conc.: 1.6 µg/kg, country: Canada⁸⁰⁶, *rye, dried

see also flour (rye), flour (wheat), pancake, triticale

ERGOCRISTINE

incidence: $3/3^*$, conc. range: $2.1-5.4 \mu g/kg$, \varnothing conc.: $4.03 \mu g/kg$, country: Canada⁸⁰⁶, *wheat, dried

incidence: $3/3^*$, conc. range: $5.9-10 \mu g/kg$, \varnothing conc.: $8.53 \mu g/kg$, country: Canada⁸⁰⁶, *rye, dried

see also flour (rye), flour (wheat), pancake, triticale

Ergometrine

incidence: 2?/3*, conc. range: $1.7-2.3 \mu g/kg$, \varnothing conc.: $2 \mu g/kg$, country: Canada⁸⁰⁶, *rye, dried see also flour (rye), flour (wheat), pancake,

see also flour (rye), flour (wheat), pancake, triticale

Ergosine

incidence: 2?/3*, conc. range: 2.9–4.4 μg/kg, Ø conc.: 3.65 μg/kg, country: Canada⁸⁰⁶, *rye, dried

see also flour (rye), flour (wheat), pancake, triticale

ERGOTAMINE

incidence: $3/3^*$, conc. range: $8.4-9.1 \mu g/kg$, \varnothing conc.: $8.7 \mu g/kg$, country: Canada⁸⁰⁶, *wheat, dried

incidence: $3/3^*$, conc. range: $3.6-7.5 \mu g/kg$, \varnothing conc.: $6.13 \mu g/kg$, country: Canada⁸⁰⁶, *rye, dried

see also flour (rye), flour (wheat), pancake, triticale

α -Ergokryptine

incidence: 2/3*, conc. range: 0.8–1 μg/kg, Ø conc.: 0.9 μg/kg, country: Canada⁸⁰⁶, *wheat, dried

incidence: $3/3^*$, conc. range: 1.4–2.4 µg/kg, \varnothing conc.: 1.9 µg/kg, country: Canada⁸⁰⁶, *rye, dried

see also flour (rye), flour (wheat), pancake, triticale,

Fumonisin B₁

incidence: 1/1*, conc.: 600 μg/kg, country: USA³⁵⁶, *unprocessed

toti , unprocessed

incidence: 1/1*, conc.: 500 μg/kg, country: USA³⁵⁶, *processed

see also arepas, asparagus, barley, batter, beans, beer, bran (maize), cake (rice), cereals, cereals (breakfast), chamomile, chips (maize), chips (tortilla), flakes (corn), flour (maize), food, food (baby), foodstuff, grits (maize), Incaparina, leaves, maize, maize fiber, maize muffin, maize products, maize silk, maize starch, masa, meal (maize), meal (sorghum), milk, muffin mix, nuts (peanut), pancake, popcorn, rapoko, rice, snacks, sorghum, soybeans, syrup (sorghum), tea, tortillas, wheat

FUMONISINS

incidence: 1/1*, conc.: 600 μg/kg, country: USA³⁵⁶, *maize

incidence: $4/4^*$, conc. range: $400-3450 \mu g/kg$, \varnothing conc.: $1285 \mu g/kg$, country: USA³⁵⁷, *maize

incidence: 30/35*, conc. range: <9–1808 µg/kg, country: Czech Republic⁶⁷⁰, *maize-extruded, gluten-free see also beer, cereal (infant), chips (tortilla), flakes (corn), flour (maize), grits (maize), maize, maize pops cereal, maize products, maize starch, maize (infant cream corn), meal (maize), muffin mix, pasta, popcorn, porridge, products, sorghum, tortillas

HT-2 Toxin

incidence: 13/96*, conc. range: 12–32 μg/kg, Ø conc.: 16 μg/kg, country: Germany⁵¹⁷, *and related products

incidence: 2/101*, conc. range: 12 μ g/kg, \varnothing conc.: 12 μ g/kg, country: Germany⁵¹⁸, *includes rye, mixed rye, wheat, mixed wheat bread

see also barley, bran (oat), bran (wheat), cereal (baby), cereals, cereals (breakfast), flakes (oat), flour (maize), flour (wheat), food, food (baby), germ (wheat), grits (maize), groats (oat), maize, noodles, nuts (hazelnut), oat products, oats, products, pumpkin seeds, rye, spices (chilli powder), spices (curry), sunflower seeds, wheat

Nivalenol

incidence: 2/96*, conc. range: 67–169 μg/kg, Ø conc.: 118 μg/kg, country: Germany⁵¹⁷, *and related products

incidence: $5/101^*$, conc. range: $25-64 \mu g/kg$, \varnothing conc.: 33 $\mu g/kg$, country: Germany⁵¹⁸, *includes rye, mixed rye, wheat, mixed wheat bread

incidence: 1/4*, conc.: 21 μg/kg, country: UK⁷³², *pitta

incidence: 1/4*, conc.: 16 μg/kg, country: UK⁷³², *chapatti

incidence: ?/4*, conc. range: 3–5 μg/kg, country: UK⁷³², *nan

incidence: 9/60, conc. range: 12–39 μ g/kg, country: UK⁸³⁶

see also barley, beer, biscuits, bran (wheat), cake, cereal (baby), cereals, cereals (breakfast), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, germ (wheat), grits (maize), grits (wheat), Job's-tears, maize, malt (barley), meal

(millet), millet, noodles, oat products, oats, rice, rye, snacks, sorghum, soybeans, spices (chilli sauce), spices (curry), spices (curry paste), spices (curry powder), spices (garlic), spices (ginger), spices (tandoori), wheat

OCHRATOXIN A

incidence: 1/2, conc.: 0.2 μ g/kg, country: Switzerland⁵⁷⁸

incidence: 26/51, conc. range: 0.05–0.09 μg/kg (4 sa), 0.1–0.19 μg/kg (11 sa), 0.2–0.49 μg/kg (7 sa), 0.5–1.49 μg/kg (4 sa), country: Germany⁶²³

incidence: 6/8*, conc. range: 0.1–0.19 μg/kg (2 sa), 0.2–0.49 μg/kg (1 sa), 0.5–1.49 μg/kg (3 sa), country: Germany⁶²³, *toast incidence: 4/57*, conc. range: 0.1–1 μg/kg, Ø conc.: 0.7 μg/kg, country: Germany⁶⁴⁰, *wheat and rye bread (German Mischbrot) incidence: 4/36*, conc. range: 0.2–0.3 μg/kg, country: Germany⁶⁴⁰, *whole meal incidence: 1/50*, conc.: 210 μg/kg, country: UK⁶⁴⁹, *moldy

incidence: 1/2*, conc.: 80,000 μg/kg, country: Italy⁶⁸⁸, *moldy, intended for animal feed incidence: 110/125*, conc. range: ≤2.089 μg/kg, Ø conc .: 0.188 μg/kg, country: Germany⁶⁹⁰, *mixed wheat incidence: 121/128*, conc. range: ≤2.244 μg/kg, Ø conc.: 0.245 μg/kg, country: Germany⁶⁹⁰, *mixed rye incidence: 48/57* conc. range: ≤1.905 μg/kg

incidence: 48/57*, conc. range: \leq 1.905 µg/kg, \varnothing conc.: 0.111 µg/kg, country: Germany⁶⁹⁰, *white

incidence: 89/96*, conc. range: ≤5.488 μg/kg, Ø conc.: 0.219 μg/kg, country: Germany⁶⁹⁰, *rye wholemeal

incidence: 48/49*, conc. range: ≤1.757 µg/kg, Ø conc.: 0.245 µg/kg, country: Germany⁶⁹⁰, *multigrain

incidence: 98/101*, conc. range: \leq 2.440 µg/kg, \varnothing conc.: 0.173 µg/kg, country: Germany⁶⁹⁰, *multigrain with oilseeds incidence: 13/13*, conc. range: \leq 0.401 µg/kg, \varnothing conc.: 0.134 µg/kg, country: Germany⁶⁹⁰, *wheat whole

incidence: $52/59^*$, conc. range: $\leq 0.584 \mu g/kg$, \varnothing conc.: $0.081 \mu g/kg$, country: Germany⁶⁹⁰, *toast

incidence: ?/4*, conc. range: 0.2-0.8 µg/kg, country: UK⁷³², *pitta incidence: ?/4*, conc. range: 0.5-0.9 µg/kg, country: UK⁷³², *chapatti see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry

powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

OCHRATOXIN B

incidence: 1/2*, conc.: 9600 μg/kg, country: Italy⁶⁸⁸, *moldy, intended for animal feed see also barley, malt (barley)

T-2 Toxin

incidence: 1/40, conc.: 1.3 μg/kg, country: Egypt⁴²⁷

incidence: 1/96*, conc.: 4 µg/kg, country: Germany⁵¹⁷, *and related products incidence: 1/101*, conc.: 4 µg/kg, country: Germany⁵¹⁸, *includes rye, mixed rye, wheat, mixed wheat bread

see also barley, beans, beer, bran (oat), bran (wheat), cereals, cereals (breakfast), flakes (oat), flour, flour (maize), flour (wheat), food, grits (maize), maize, nuts (hazelnut), nuts (peanut), oat products, oats, rice, rye, sorghum, spices (curry), spices (ginger), spices (tandoori), sunflower seeds, wheat

ZEARALENONE

incidence: 4/40, \varnothing conc.: 34 µg/kg, country: Egypt⁴²⁷

incidence: 2/2* **, conc. range: 250–750 μg/kg, Ø conc.: 500 μg/kg, country: Papua, New Guinea⁵⁷⁴, *from Australia, **wheat, crumbs

incidence: 1/60, conc.: 15.8 μ g/kg, country: UK⁸³⁶

see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts

(almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Breakfast cereals

see Cereals (breakfast)

Brie cheese

see Cheese

Bsissa

see Cereals

Buckwheat may contain the following mycotoxins:

Aflatoxin B_1

incidence: 23/123, conc. range: 0.1–4.2 μg/kg, country: Japan¹⁸⁴

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drink, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruit products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho),

41 Buckwheat

meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂

incidence: 23/123, conc. range: 0.1–0.9 μg/kg, country: Japan¹⁸⁴

see also acha, areca nut, beans, beer, betel nut, bondakaledkai, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice,

sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Aflatoxin G₁

incidence: 23/123, conc. range: 0.2–0.8 μ g/kg, country: Japan¹⁸⁴

see also areca nut, beans, betel nut, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

AFLATOXIN G₂

incidence: 23/123, conc. range: tr–0.1 μg/kg, country: Japan¹⁸⁴

see also areca nut, beans, betel nut, cereals (breakfast), cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts

Buckwheat 42

(pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

OCHRATOXIN A

incidence: 1/34, conc.: 5 μg/kg, country: Germany⁶⁴⁰

incidence: 10/23, conc. range: <0.594 µg/kg, Ø conc.: 0.046 μg/kg, country: Germany⁶⁹⁰ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, ligourice, ligourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig

blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Buckwheat meal

see Meal (buckwheat)

Burukutu

see Beer

Butter may contain the following mycotoxins:

AFLATOXIN B₁

incidence: 2/6* **, conc. range: LOQ–2 μg/kg (1 sa), 2.5 μg/kg (1 sa), country: UK⁸³⁴, *other nut butter than peanut butter, **imported? incidence: 1/1* **, conc.: 2.9 μg/kg, country: UK⁸³⁴, *other nut butter than peanut butter, **imported?

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drink, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruit products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam

43 Butter

(bean), Job's-tears, jowar, kheri, juice (apple), juice (mango), kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN M₁

incidence: 52/64, conc. range: 0.01–2.2 μg/kg, country: Turkey¹²

incidence: 2/26, conc. range: \leq 0.15 µg/l,

country: France⁸¹ see also cheese, cheese (blue), gruel, ice cream, kidney (poultry), koshk, lactoserum powder, maize, milk, milk packets, milk powder, milk products, milk (buffalo), milk (camel), milk (cow), milk (goat), milk (human breast), milk (raw or dried, for infant

formula), milk (sheep), milk (sheep/goat), milk (UHT), milk (whey powder), yogurt

AFLATOXINS (TOTAL)

incidence: $1/6^*$ **, conc.: 4.2 µg/kg, country: UK⁸³⁴, *other nut butter than peanut butter, **imported?

incidence: 1/1*, conc.: 4.8 μg/kg, country: UK⁸³⁴, *imported

see also beans, figs, maize, nut cereals, nuts (almond), nuts (brazil), nuts (cashew), nuts ("chico-felix"), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), paste (fig), rice, sunflower seeds

OCHRATOXIN A

incidence: 2/6* **, conc. range: 0.7-2 μg/kg, Ø conc.: 1.35 μg/kg, country: UK⁸³⁴, *other nut butter than peanut butter, **imported? see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must,

Butter 44

noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Butter cheese

see Cheese

Cake may contain the following mycotoxins:

Deoxynivalenol

incidence: 19/40, conc. range: 11–67 μg/kg, country: UK⁸³⁶

see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

Nivalenol

incidence: 1/40, conc.: 11 μg/kg, country: UK⁸³⁶

see also barley, beer, biscuits, bran (wheat), bread, cereal (baby), cereals, cereals (breakfast), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, germ (wheat), grits (maize), grits (wheat), Job's-tears, maize, malt (barley), meal (millet), millet, noodles, oat products, oats, rice, rye, snacks, sorghum, soybeans, spices (chilli sauce), spices (curry), spices (curry paste), spices (curry powder), spices (garlic), spices (ginger), spices (tandoori), wheat

Cake (cocoa) may contain the following mycotoxins:

OCHRATOXIN A

incidence: 74/80*, conc. range: 0.1-9 μg/kg, \emptyset conc.: 2.79 µg/kg, country: Indonesia²⁴³, *and from Ivory Coast, Ghana, Malaysia, Nigeria, Ecuador, Honduras, Peru see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt),

45 Candy (peanut)

meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Cake (rice) may contain the following mycotoxins:

Fumonisin B₁ incidence: 27/30, conc. range: 5–98 μg/kg, \varnothing conc.: 42 μg/kg, country: Korea³⁷⁴ see also arepas, asparagus, barley, batter, beans, beer, bran (maize), bread, cereals, cereals (breakfast), chamomile, chips (maize), chips (tortilla), flakes (corn), flour (maize), food, food (baby), foodstuff, grits (maize), Incaparina, leaves, maize, maize fiber, maize muffin, maize products, maize silk, maize starch, masa, meal (maize), meal (sorghum), milk, muffin mix, nuts (peanut), pancake, popcorn, rapoko, rice, snacks, sorghum, soybeans, syrup (sorghum), tea, tortillas, wheat

Cake/muffin mixes may contain the following mycotoxins:

ZEARALENONE incidence: 1/5, conc.: 3.1 μg/kg, country: USA⁸³¹

see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Camembert cheese

see Cheese

Camembert and brie cheese

see Cheese

Candy (peanut) may contain the following mycotoxins:

Aflatoxins

incidence: 10/18, conc. range: \leq 20 µg/kg, \varnothing conc: 10 µg/kg, country: USA197 incidence: 44/63*, conc. range: 0.1-5 µg/kg (2 sa), 6-10 µg/kg (14 sa), 11-20 µg/kg (6 sa), 21–35 µg/kg (8 sa), 36–40 µg/kg (3 sa), 41–60 $\mu g/kg$ (4 sa), 61–80 $\mu g/kg$ (2 sa), 81–150 $\mu g/kg$ (2 sa), >150 $\mu g/kg$ (3 sa), country: Malaysia³⁹¹, *kacang tumbuk see also beans, candy (pistachio), cassava, figs, flour (maize), grain mixtures, grains, maize, maize dough, maize products, melon seeds, millet, nuts, nuts (almond), nuts (brazil), nuts (peanut), nuts (peanut butter), nuts (peanut mix), nuts (peanut products), nuts (pecan), nuts (pistachio), nuts (walnut), nuts and seeds, paste (peanut), paste

Candy (peanut) 46

(pipian), peas, rice, sauce (leaf), snacks, sorghum, spices, spices (chilli), spices (cumin), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper), spices (tandoori), teff, tubers, wheat

Candy (pistachio) may contain the following mycotoxins:

Aflatoxins

incidence: 1/1*, conc.: 78 μg/kg, country: USA¹⁹⁷, *imported

see also beans, candy (peanut), cassava, figs, flour (maize), grain mixtures, grains, maize, maize dough, maize products, melon seeds, millet, nuts, nuts (almond), nuts (brazil), nuts (peanut), nuts (peanut butter), nuts (peanut mix), nuts (peanut products), nuts (pecan), nuts (pistachio), nuts (walnut), nuts and seeds, paste (peanut), paste (pipian), peas, rice, sauce (leaf), snacks, sorghum, spices, spices (chilli), spices (cumin), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper), spices (tandoori), teff, tubers, wheat

Canned foods

see Food

Cardamom

see Spices (cardamom)

Carrot juice

see Juice (carrot)

Cashew nuts

see Nuts (cashew)

Cassava may contain the following mycotoxins:

Aflatoxin B_1

incidence: ?/8, conc. range: 5–14 μg/kg,

country: Nigeria¹⁷⁷

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut

cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drink, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruit products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxins

incidence: 4*/34, conc. range: 100–1000 μg/kg (2 sa), >1000 μg/kg (2 sa), country: Uganda⁵, * 2 sa contained AFB₁, 4 AFB₂, 2 AFG₁

47 Celery seeds

see also beans, candy (peanut), candy (pistachio), figs, flour (maize), grain mixtures, grains, maize, maize dough, maize products, melon seeds, millet, nuts, nuts (almond), nuts (brazil), nuts (peanut), nuts (peanut butter), nuts (peanut mix), nuts (peanut products), nuts (pecan), nuts (pistachio), nuts (walnut), nuts and seeds, paste (peanut), paste (pipian), peas, rice, sauce (leaf), snacks, sorghum, spices, spices (chilli), spices (cumin), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper), spices (tandoori), teff, tubers, wheat

Cyclopiazonic Acid

incidence: 4/43* **, conc. range: 80–720 μg/kg, Ø conc.: 430 μg/kg, country: UK⁸³⁰, *from Ghana, **kokonte (dried cassava) see also cheese, maize, milk (cow), nuts (peanut), pulp (tomato), tomato purée

PATULIN

incidence: 4/43* **, conc. range: 550–850 μg/kg, Ø conc.: 683 μg/kg, country: UK⁸³⁰, *from Ghana, **kokonte (dried cassava) see also apple cider, apple flavor, apples (stewed fruit), berries (blueberry), berries (lingnonberry), berries (mulberry), berries (raspberry), berries (strawberry), cheese, food (baby), fruit products, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (pear), fruits (plum), jam, jam (apple), juice, juice (apple), juice (apple-acerola), juice (apple, concentrate), juice (cherry), juice (currant), juice (fruit), juice (grape), juice (orange), juice (peach), juice (pear), must, pulp (plum), syrup (apple), vinegar

Penicillic Acid

incidence: 5/43* **, conc. range: 110–850 μg/kg, Ø conc.: 302 μg/kg, country: UK⁸³⁰, *from Ghana, **kokonte (dried cassava) see also beans, cheese, maize

STERIGMATOCYSTIN

incidence: $10/43^*$ **, conc. range: 130-1670 µg/kg, \varnothing conc.: 545 µg/kg, country: UK⁸³⁰, *from Ghana, **kokonte (dried cassava) see also barley, cheese, coffee, maize, nuts (almond), nuts (pecan), nuts (pistachio), oil

seed rape, rice, spices, spices (fennel), spices (pepper), wheat

Tenuazonic Acid

incidence: 3/43* **, conc. range: 20–340 μg/kg, Ø conc.: 130 μg/kg, country: UK⁸³⁰, *from Ghana, **kokonte (dried cassava) see also bran, fruits (mandarin fruit), maize, olives, pulp (tomato), ragi, rice, sorghum, spices (pepper), sunflower seeds, tomato purée, tomatoes, wheat

Cassava flour

see Flour (cassava)

Cassava starch

see Sago

Cayenne pepper

see Spices (pepper, cayenne)

Celery seeds may contain the following mycotoxins:

AFLATOXIN G₁

incidence: 1/9*, conc.: 3.7 μg/kg, country: USA¹⁸³, *from Indonesia, Malaysia or India see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

Cereal and pulse products

see Cereals

Cereal flakes

see Flakes (cereal)

Cereal meal

see Meal (cereal)

Cereal products may contain the following mycotoxins:

Fumonisin B₃

incidence: 3/16*, conc. range: 50.5–106 μg/kg, Ø conc.: 80.7 μg/kg, country: USA²³⁵, *maize-based see also barley, cereals, flour (maize), food (baby), Incaparina, maize, meal (maize), pancake, popcorn, rice, snacks

OCHRATOXIN A

incidence: 2/7, conc. range: 0.1–0.19 μg/kg (1 sa), 0.2–0.49 μg/kg (1 sa), country: Germany⁶²³

see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal),

meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Cereal (baby) may contain the following mycotoxins:

DEOXYNIVALENOL

incidence: 14/17, conc. range: 10-100 µg/kg (13 sa), 177 μg/kg (1 sa), country: UK⁸³⁶ see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

HT-2 Toxin

incidence: 3/17, conc. range: 13–17 μ g/kg, country: UK⁸³⁶

see also barley, bran (oat), bran (wheat), bread, cereals, cereals (breakfast), flakes (oat), flour (maize), flour (wheat), food, food (baby), germ (wheat), grits (maize), groats (oat), maize, noodles, nuts (hazelnut), oat products, oats, products, pumpkin seeds, rye, spices (chilli powder), spices (curry), sunflower seeds, wheat

Nivalenol

incidence: 4/17, conc. range: 19–66 μg/kg, country: UK⁸³⁶

see also barley, beer, biscuits, bran (wheat), bread, cake, cereals, cereals (breakfast), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, germ (wheat), grits (maize), grits (wheat), Job's-tears, maize, malt (barley), meal (millet), millet, noodles, oat products, oats, rice, rye, snacks, sorghum, soybeans, spices (chilli sauce), spices (curry), spices (curry paste), spices (curry powder), spices (garlic), spices (ginger), spices (tandoori), wheat

Zearalenone

incidence: 1/17, conc.: 11.6 μg/kg, country: UK⁸³⁶

see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Cereal (infant) may contain the following mycotoxins:

Fumonisins

incidence: 1/1*, conc.: 200 µg/kg, country: USA³⁵⁷, *maize-based see also beer, bread, chips (tortilla), flakes (corn), flour (maize), grits (maize), maize, maize pops cereal, maize products, maize starch, maize (infant cream corn), meal (maize), muffin mix, pasta, popcorn, porridge, products, sorghum, tortillas

Cereals may contain the following mycotoxins:

Aflatoxin B_1

incidence: 6/28, conc. range: 6–92 μg/kg, Ø conc.: 36 µg/kg, country: Egypt¹⁶² see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drink, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruit products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts

(coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxins (B_1, B_2, G_1, G_2) incidence: 18/52*, conc. range: 2-10 µg/kg, country: Australia¹³, *processed see also barley, beans, bread, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (fig), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

CITRININ

incidence: $14/38^*$, conc. range: $0.2-1 \mu g/kg$, \varnothing conc.: $0.5 \mu g/kg$, country: Switzerland⁷¹⁴,

*includes different kinds of meals, breadmixture, grits, pasta, bran, oat, rice, barley see also angkak (red mold rice), barley, cheese, food, food colorant, fruits (apple), maize, maize dough, meal (copra), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), oil seed rape, olives, rice, spices, spices (cardamom), spices (coriander), spices (cumin), spices (fennel), spices (pepper), spices (turmeric), wheat

Deoxynivalenol

incidence: 110/245* **, conc. range: ≤10,970 μg/kg, country: Germany²⁵⁹, *includes wheat, barley, triticale and oats, **ncac incidence: 21/61, conc. range: <80 µg/kg, country: Switzerland²⁷⁶ incidence: 1/3, conc.: 16,000 µg/kg, country: USA424, *mixed incidence: 329/329*, conc. range: 9-183.6 μg/kg, country: Germany⁴²⁹, *cg and og incidence: 26/30, conc. range: 20-49 µg/kg (7 sa), 50-99 μg/kg (12 sa), 100-249 μg/kg (4 sa), 250-499 μg/kg (3 sa, with a maximum of 370 µg/kg), country: UK⁷⁷⁴ see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

3-ACETYLDEOXYNIVALENOL incidence: 17/245* **, conc. range: ≤468 µg/kg, country: Germany²⁵⁹, *includes wheat, barley, triticale and oats, **ncac see also barley, bread, cereals (breakfast),

flakes (oat), flour (maize), flour (wheat),

food, food (baby), grits (maize), maize, oat products, oats, rice, rye, snacks, wheat

Fumonisin B₁

incidence: 10/10* ** ****, conc. range: 13–176 μg/kg, Ø conc.: 97.5 μg/kg, country: Italy⁴⁰⁷, *from Europe, **maize-based, ***for corn flake production

incidence: $16/16^*$ ** ***, conc. range: 134–1335 µg/kg, \varnothing conc.: 526 µg/kg, country: South Africa⁶¹⁵, *from Brazil, **infant, ***different ingredients

incidence: 8/8* ***, conc. range: 20–350 μg/kg, Ø conc.: 257 μg/kg, country: South Africa⁷⁶³, *and cereal-based products, **from Botswana see also arepas, asparagus, barley, batter, beans, beer, bran (maize), bread, cake (rice), cereals (breakfast), chamomile, chips (maize), chips (tortilla), flakes (corn), flour (maize), food, food (baby), foodstuff, grits (maize), Incaparina, leaves, maize, maize fiber, maize muffin, maize products, maize silk, maize starch, masa, meal (maize), meal (sorghum), milk, muffin mix, nuts (peanut), pancake, popcorn, rapoko, rice, snacks, sorghum, soybeans, syrup (sorghum), tea, tortillas, wheat

Fumonisin B₂

incidence: 10/10* ** ***, conc. range: 7–62 μg/kg, Ø conc.: 22.1 μg/kg, country: Italy⁴⁰⁷, *from Europe, **maize-based, ***for corn flake production

incidence: $10/16^*$ ******, conc. range: nd–307 µg/kg, \varnothing conc.: 131 µg/kg, country: South Africa⁶¹⁵, *from Brazil, **infant, ***different ingredients

incidence: 4/8* ***, conc. range: 50–105 μg/kg, Ø conc.: 78.8 μg/kg, country: South Africa⁷⁶³, *and cereal-based products, **from Botswana see also arepas, asparagus, barley, batter, beer, bran (maize), cereals (breakfast), chips (maize), chips (tortilla), flakes (corn), flour (maize), food (baby), foodstuff, grits (maize), Incaparina, maize, maize fiber, maize starch, masa, meal (maize), muffin mix, pancake, popcorn, rice, snacks, tortillas, wheat

Fumonisin B₃

incidence: $10/16^*$ ** ****, conc. range: nd–111 µg/kg, \varnothing conc.: 69 µg/kg, country: South Africa⁶¹⁵, *from Brazil, **infant, ***different ingredients

incidence: 3/8* **, conc. range: 40–70 μg/kg, Ø conc.: 46.7 μg/kg, country: South Africa⁷⁶³, *and cereal-based products, **from Botswana see also barley, cereal products, flour (maize), food (baby), Incaparina, maize, meal (maize), pancake, popcorn, rice, snacks

HT-2 Toxin

incidence: 15/65* **, conc. range: ≤236 µg/kg, country: Germany²⁵⁹, *includes wheat, barley, triticale and oats, **ncac see also barley, bran (oat), bran (wheat), bread, cereal (baby), cereals (breakfast), flakes (oat), flour (maize), flour (wheat), food, food (baby), germ (wheat), grits (maize), groats (oat), maize, noodles, nuts (hazelnut), oat products, oats, products, pumpkin seeds, rye, spices (chilli powder), spices (curry), sunflower seeds, wheat

Nivalenol

incidence: 7/245* **, conc. range: ≤256 µg/kg, country: Germany²⁵⁹, *includes wheat, barley, triticale and oats, **ncac see also barley, beer, biscuits, bran (wheat), bread, cake, cereal (baby), cereals (breakfast), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, germ (wheat), grits (maize), grits (wheat), Job's-tears, maize, malt (barley), meal (millet), millet, noodles, oat products, oats, rice, rye, snacks, sorghum, soybeans, spices (chilli sauce), spices (curry), spices (curry paste), spices (curry powder), spices (garlic), spices (ginger), spices (tandoori), wheat

OCHRATOXIN A

incidence: 2/49, conc. range: $18-22 \mu g/kg$, \varnothing conc.: $20 \mu g/kg$, country: GDR¹⁷⁸ incidence: 3/49, conc. range: $0.2-0.49 \mu g/kg$ (2 sa), $0.5-1.49 \mu g/kg$ (1 sa), country: Germany⁶²³ incidence: 8/11 conc. range: $0.6-12.8 \mu g/kg$

incidence: 8/11, conc. range: 0.6–12.8 μ g/kg, \varnothing conc.: 4.7 μ g/kg, country: France⁶³⁰

incidence: 11/11*, conc. range: 0.4–12,770 μg/kg, country: Tunisia⁶³⁴, *mixed cereal food (bsissa)

incidence: 5/30, conc. range: 0.3–0.9 µg/kg (2 sa), 1–2.4 µg/kg (2 sa), 3.9 µg/kg (1 sa), country: UK⁷⁷⁴

incidence: 20/296*, conc. range: 20-470 μg/kg, country: Poland822, *ncac see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice

powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

DIACETOXYSCIRPENOL

incidence: 23/65* **, conc. range: ≤338 µg/kg, country: Germany²⁵⁹, *includes wheat, barley, triticale and oats, **ncac see also beans, beer, bran (wheat), maize, nuts (peanut), oats, products, rice, soybeans, spices (chilli powder), spices (curry), wheat

T-2 Toxin

incidence: 8/65* **, conc. range: ≤119 μg/kg, country: Germany²⁵⁹, *includes wheat, barley, triticale and oats, **ncac incidence: 13/50*, conc. range: 450–1900 μg/kg, country: Turkey³³⁶, *and pulse products see also barley, beans, beer, bran (oat), bran (wheat), bread, cereals (breakfast), flakes (oat), flour, flour (maize), flour (wheat), food, grits (maize), maize, nuts (hazelnut), nuts (peanut), oat products, oats, rice, rye, sorghum, spices (curry), spices (ginger),

spices (tandoori), sunflower seeds, wheat

ZEARALENONE

incidence: 12/245* ***, conc. range: ≤67 μg/kg, country: Germany²⁵⁹, *includes wheat, barley, triticale and oats, **ncac incidence: 3/61, conc. range: ≤16 μg/kg, country: Switzerland²⁷⁶ incidence: 2/3*, conc. range: 12–50 μg/kg, Ø conc.: 31 μg/kg, country: USA⁴²⁴, *mixed incidence: 3/584*, conc. range: 200–1200 μg/kg, Ø conc.: 700 μg/kg, country: Poland⁴³⁵, *includes wheat, barley, rye, maize incidence: 1/8* **, conc.: 100 μg/kg, country: South Africa⁷⁶³, *and cereal-based products, **from Botswana

see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Cereals (breakfast) may contain the following mycotoxins:

Aflatoxin B_1

incidence: 31/45*, conc. range: 0.002-0.818 μg/kg, country: Canada⁵⁵⁹, *maize-based incidence: 42/55*, conc. range: 0.002-0.255 μg/kg, country: Canada⁵⁵⁹, *mixed-grain incidence: 12/24*, conc. range: 0.002-0.109 μg/kg, country: Canada⁵⁵⁹, *rice-based incidence: 2/48*, conc. range: 0.008-0.020 μg/kg, country: Canada⁵⁵⁹, *wheat-based see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drink, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruit products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe

deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxin B₂

incidence: 20/45*, conc. range: 0.002–0.136 µg/kg, country: Canada⁵⁵⁹, *maize-based incidence: 23/55*, conc. range: 0.002–0.045 µg/kg, country: Canada⁵⁵⁹, *mixed-grain incidence: 6/24*, conc. range: 0.002–0.006 µg/kg, country: Canada⁵⁵⁹, *rice-based see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean),

Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Aflatoxin G₁

incidence: 6/45*, conc. range: 0.008-0.271 μg/kg, country: Canada⁵⁵⁹, *maize-based incidence: 6/55*, conc. range: 0.015-0.104 μg/kg, country: Canada⁵⁵⁹, *mixed-grain see also areca nut, beans, betel nut, buckwheat, celery seeds, cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices

(pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

AFLATOXIN G₂

incidence: 2/45*, conc. range: 0.008-0.048 μg/kg, country: Canada⁵⁵⁹, *maize-based incidence: 1/55*, conc.: 0.018 μg/kg, country: Canada⁵⁵⁹, *mixed-grain see also areca nut, beans, betel nut, buckwheat, cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

Deoxynivalenol

incidence: 18/32, conc. range: 15–238 μg/kg, \varnothing conc.: 75 μg/kg, country: Germany⁵¹⁷ incidence: 14/25*, conc. range: ≤530 μg/kg, country: USA⁵⁴⁵, *wheat incidence: 10/24*, conc. range: ≤210 μg/kg, country: USA⁵⁴⁵, *corn & grits incidence: 10/10*, conc. range: 30–160 μg/kg, country: USA⁵⁴⁵, *bran incidence: 42/60, conc. range: 10–100 μg/kg (30 sa), >100–250 μg/kg (10 sa), >500–750 μg/kg (1 sa), 2261 μg/kg (1 sa), country: UK⁸³⁶

see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt

(barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

3-Acetydeoxynivalenol

incidence: 4/32, conc. range: 16–40 µg/kg, \varnothing conc.: 25 µg/kg, country: Germany⁵¹⁷ incidence: 2/60, conc. range: 11–36 µg/kg, \varnothing conc.: 23.5 µg/kg, country: UK⁸³⁶ see also barley, bread, cereals, flakes (oat), flour (maize), flour (wheat), food, food (baby), grits (maize), maize, oat products, oats, rice, rye, snacks, wheat

15-Acetydeoxynivalenol

conc.: 23 μg/kg, country: Germany⁵¹⁷ incidence: 8/60, conc. range: 10–100 μg/kg (6 sa), >100–250 μg/kg (1 sa), 806 μg/kg (1 sa), country: UK⁸³⁶ see also barley, bran (oat), bran (wheat), flour (maize), flour (wheat), food, grits

incidence: 9/32, conc. range: 15–37 µg/kg, Ø

flour (maize), flour (wheat), food, grits (maize), maize, noodles, oat products, oats, snacks, wheat

Fumonisin B₁

incidence: 3/4*, conc. range: 18–237 μg/kg, \varnothing conc.: 117 μg/kg, country: Canada⁶¹⁴, *maize-based see also arepas, asparagus, barley, batter, beans, beer, bran (maize), bread, cake (rice), cereals chamomile chips (maize) chips

beans, beer, bran (maize), bread, cake (rice), cereals, chamomile, chips (maize), chips (tortilla), flakes (corn), flour (maize), food, food (baby), foodstuff, grits (maize), Incaparina, leaves, maize, maize fiber, maize muffin, maize products, maize silk, maize starch, masa, meal (maize), meal (sorghum), milk, muffin mix, nuts (peanut), pancake, popcorn, rapoko, rice, snacks, sorghum, soybeans, syrup (sorghum), tea, tortillas, wheat

Fumonisin B₂

incidence: 1/4*, conc.: 21 µg/kg, country: Canada⁶¹⁴, *maize-based

see also arepas, asparagus, barley, batter, beer, bran (maize), cereals, chips (maize), chips (tortilla), flakes (corn), flour (maize), food (baby), foodstuff, grits (maize), Incaparina, maize, maize fiber, maize starch, masa, meal (maize), muffin mix, pancake, popcorn, rice, snacks, tortillas, wheat

Fumonisins (B_1, B_2, B_3)

incidence: 12/50, conc. range: 11–194 μg/kg, country: UK³⁸³ see also bran (maize), flour, flour (maize), germ (maize), grains, grits (maize), maize, maize-based thickeners, popcorn, snacks,

FUSARENON X

tortillas

incidence: 1/60, conc.: 34 μg/kg, country: UK⁸³⁶

see also flour (maize), food, maize, oat products, spices (curry), spices (garlic)

HT-2 Toxin

incidence: 10/32, conc. range: 12–22 μg/kg, Ø conc.: 13 μg/kg, country: Germany⁵¹⁷ incidence: 7/60, conc. range: 11–77 μg/kg, country: UK⁸³⁶ see also barley, bran (oat), bran (wheat), bread, cereal (baby), cereals, flakes (oat), flour (maize), flour (wheat), food, food (baby), germ (wheat), grits (maize), groats (oat), maize, noodles, nuts (hazelnut), oat products, oats, products, pumpkin seeds, rye, spices (chilli powder), spices (curry), sunflower seeds, wheat

Neosolaniol

incidence: 1/60, conc.: 11 μg/kg, country: UK⁸³⁶

see also maize, oat products, sorghum, spices (curry), spices (ginger), wheat

Nivalenol

incidence: 26/60, conc. range: 10–100 µg/kg (21 sa), >100–250 µg/kg (4 sa), 260 µg/kg (1 sa), country: UK⁸³⁶ see also barley, beer, biscuits, bran (wheat), bread, cake, cereal (baby), cereals, flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, germ (wheat), grits (maize), grits (wheat), Job's-tears, maize, malt

(barley), meal (millet), millet, noodles, oat products, oats, rice, rye, snacks, sorghum, soybeans, spices (chilli sauce), spices (curry), spices (curry paste), spices (curry powder), spices (garlic), spices (ginger), spices (tandoori), wheat

OCHRATOXIN A

incidence: 3/5, conc. range: 1.51–5.35 µg/kg, Ø conc.: 2.91 μg/kg, country: Spain²³² incidence: 65/85*, conc. range: ≤0.94 µg/kg, country: Germany⁵⁹², *barley-based incidence: 11/11*, conc. range: ≤0.975 µg/kg, Ø conc.: 0.362 μg/kg, country: Spain⁶⁰⁹, *high fiber content incidence: 8/10*, conc. range: ≤0.368 µg/kg, country: Spain⁶⁰⁹, *normal fiber content incidence: 7/22*, conc. range: 0.2-0.5 µg/kg (4 sa), 0.6–1 μg/kg (2 sa), 1.9 μg/kg (1 sa), country: UK⁷⁴⁰, *raw materials see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew),

nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

T-2 Toxin

incidence: 2/32, conc. range: 4–7 μ g/kg, \varnothing conc.: 6 μ g/kg, country: Germany⁵¹⁷ incidence: 1/60, conc.: 31 μ g/kg, country: UK⁸³⁶

see also barley, beans, beer, bran (oat), bran (wheat), bread, cereals, flakes (oat), flour, flour (maize), flour (wheat), food, grits (maize), maize, nuts (hazelnut), nuts (peanut), oat products, oats, rice, rye, sorghum, spices (curry), spices (ginger), spices (tandoori), sunflower seeds, wheat

ZEARALENONE

incidence: 4/39, conc. range: 2.6–8.6 μ g/kg, \varnothing conc.: 4.6 μ g/kg, country: USA⁸³¹ incidence: 11/60, conc. range: 8–25 μ g/kg (6 sa), 25.1–50 μ g/kg (2 sa), 50.1–75 μ g/kg (1 sa), >100 μ g/kg (2 sa, with a maximum of 231.8 μ g/kg), country: UK⁸³⁶ see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits,

germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Chamomile may contain the following mycotoxins:

Fumonisin B₁

incidence: 8/18, conc. range: 20–70 μg/kg, country: Portugal³¹⁰

see also arepas, asparagus, barley, batter, beans, beer, bran (maize), bread, cake (rice), cereals, cereals (breakfast), chips (maize), chips (tortilla), flakes (corn), flour (maize), food, food (baby), foodstuff, grits (maize), Incaparina, leaves, maize, maize fiber, maize muffin, maize products, maize silk, maize starch, masa, meal (maize), meal (sorghum), milk, muffin mix, nuts (peanut), pancake, popcorn, rapoko, rice, snacks, sorghum, soybeans, syrup (sorghum), tea, tortillas, wheat

Cheddar cheese

see Cheese

Chesire cheese

see Cheese

Cheese may contain the following mycotoxins:

Aflatoxin B₁

incidence: 2/248, conc.: 1 µg/kg, country:

Tunesia²⁰

incidence: 1/10*, conc.: 10 μg/kg, country:

Egypt²²¹, *Ras

incidence: 3/19*, conc. range: 68–212 μg/kg, Ø conc.: 156 μg/kg, country: India⁶⁰¹, *Bhutanese

incidence: 1/20*, conc.: 104 μg/kg, country: Egypt⁶¹¹, *cottage

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drink, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruit products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger),

spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

incidence: 1/19*, conc.: 56 µg/kg, country:

Aflatoxin B_2

India601, *Bhutanese incidence: 1/20*, conc.: 89 µg/kg, country: Egypt⁶¹¹, *cottage see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut),

products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne),

spices (turmeric), sugar, sunflower seeds,

wheat, wine

nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut

AFLATOXIN G₁ incidence: 1/10*, conc.: 4 μg/kg, country: Egypt²²¹, *Ras see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears,

juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

Aflatoxin M₁ incidence: 27/80*, conc. range: 0.1-0.51 $\mu g/kg$, \varnothing conc.: 0.23 $\mu g/kg$, country: Germany⁵, *fresh incidence: 58/77*, conc. range: 0.1-1.3 µg/kg, Ø conc.: 0.43 μg/kg, country: Germany⁶, incidence: 33/65*, conc. range: 0.1-0.73 $\mu g/kg$, \varnothing conc.: 0.31 $\mu g/kg$, country: Germany⁶, Camembert & Brie incidence: 54/134*, conc. range: 0.1-0.55 $\mu g/kg$, \varnothing conc.: 0.26 $\mu g/kg$, country: Germany⁶, *farmer's incidence: 4/4*, conc. range: tr (1 sa), <0.1 $\mu g/kg$ (2 sa), >0.1 $\mu g/kg$ (1 sa), country: Germany⁷, *Chester incidence: 3/7*, conc. range: tr (2 sa), >0.1 μg/kg (1 sa), country: Germany⁷, *wine incidence: 6/7*, conc. range: tr (4 sa), <0.1 μg/kg (2 sa), country: Germany⁷, *butter incidence: 19/38, conc. range: tr (14 sa), <0.1 $\mu g/kg$ (2 sa), >0.1 $\mu g/kg$ (3 sa), country: Germany⁷, *Camembert incidence: 31/32*, conc. range: tr (11 sa), $<0.1 \mu g/kg (16 sa), >0.1 \mu g/kg (4 sa),$ country: Germany⁷, *Edam incidence: 35/50*, conc. range: tr (19 sa), $<0.1 \mu g/kg (8 sa), >0.1 \mu g/kg (8 sa), country:$ Germany⁷, *Romadur

incidence: 3/3* **, conc. range: 0.087-0.412 incidence: 18/24*, conc. range: tr (7 sa), <0.1 $\mu g/kg (10 \text{ sa}), >0.1 \mu g/kg (1 \text{ sa}), \text{ country:}$ Germany⁷, *Tilsit incidence: 121/186*, conc. range: 0.04-4.89 μg/kg, country: Turkey¹², *white incidence: 18/200*, conc. range: 0.035-0.190 μg/kg, country: Italy¹⁵, *Parmesan incidence: 2/248, conc. range: 6.2–10.6 µg/kg, country: Tunisia²⁰ incidence: 10/60, conc. range: 0.06-0.25 μg/kg (7 sa), 0.37–0.89 μg/kg (3 sa), country: Canada²⁶ incidence: 4/36, conc. range: 0.010–0.068 µg/kg, Ø conc.: 0.033 µg/kg, country: Japan⁷¹ incidence: 4/4* **, conc. range: 0.015-0.030 $\mu g/kg$, \varnothing conc.: 0.020 $\mu g/kg$, country: Japan⁷¹, *from UK, **cheddar incidence: 6/6* **, conc. range: 0.058-0.414 $\mu g/kg$, \varnothing conc.: 0.195 $\mu g/kg$, country: Japan⁷¹, *from Denmark, **Brie incidence: 6/14* **, conc. range: 0.055-0.714 μ g/kg, \varnothing conc.: 0.177 μ g/kg, country: Japan⁷¹, *from France, **Brie incidence: 2/2* **, conc. range: 0.024–0.029 μ g/kg, \varnothing conc.: 0.0265 μ g/kg, country: Japan⁷¹, *from Germany, **Brie incidence: 5/5* **, conc. range: 0.025-0.041 $\mu g/kg$, \varnothing conc.: 0.037 $\mu g/kg$, country: Japan⁷¹, *from Germany, **butter incidence: 7/7*, conc. range: 0.055–0.479 μg/kg, country: Japan⁷¹, *from Denmark, *Camembert incidence: 18/25, conc. range: 0.013-0.565 $\mu g/kg$, \varnothing conc.: 0.173 $\mu g/kg$, country: Japan⁷¹, *from France, **Camembert incidence: 1/1*, conc.: 0.018 μg/kg, country: Japan⁷¹, *from Germany, **Camembert incidence: 9/9* **, conc. range: 0.037-0.134 $\mu g/kg$, \varnothing conc.: 0.079 $\mu g/kg$, country: Japan⁷¹, *from Denmark, **cream incidence: 4/4* **, conc. range: 0.073-0.117 $\mu g/kg$, \varnothing conc.: 0.099 $\mu g/kg$, country: Japan⁷¹, *from The Netherlands, **Edam incidence: 9/9* **, conc. range: 0.039-0.087 $\mu g/kg$, \varnothing conc.: 0.063 $\mu g/kg$, country: Japan⁷¹, *from The Netherlands, **Gouda incidence: 3/3* **, conc. range: 0.125-0.388 $\mu g/kg$, \varnothing conc.: 0.290 $\mu g/kg$, country: Japan⁷¹, *from Denmark, **Haverti

 $\mu g/kg$, \varnothing conc.: 0.264 $\mu g/kg$, country: Japan⁷¹, *from Denmark, **Maribo incidence: 4/4* **, conc. range: 0.181-0.433 $\mu g/kg$, \varnothing conc.: 0.334 $\mu g/kg$, country: Japan⁷¹, *from Denmark, **Mozzarella incidence: 5/5* **, conc. range: 0.028-0.252 $\mu g/kg$, \varnothing conc.: 0.091 $\mu g/kg$, country: Japan⁷¹, *from Germany, **Mozzarella incidence: 5/5* **, conc. range: 0.070-0.504 $\mu g/kg$, \varnothing conc.: 0.214 $\mu g/kg$, country: Japan⁷¹, *from Denmark, **Samsoe incidence: 9/279*, conc. range: 0.4-1.1 µg/kg, \emptyset conc.: 0.8 µg/kg, country: Japan⁷⁸, *imported incidence: 102/343, conc. range: $\leq 5.2 \,\mu g/kg$, country: France⁸¹ incidence: 33/91, conc. range: 0.5-? µg/kg, country: Switzerland⁸³ incidence: 8/118*, conc. range: 0.1-1.0 µg/kg, Ø conc.: 0.4 μg/kg, country: USA⁸⁴, *imported incidence: 2/4, conc. range: 0.02-0.04 µg/kg, country: Italy85 incidence: 4/50, conc. range: 0.05-0.1 µg/kg, country: Italy¹⁰⁵ incidence: 6/29*, conc. range: 0.005-0.066 μg/kg, country: Czechoslovakia¹¹⁴, *Edam incidence: 7/10*, conc. range: 0.2-1.14 µg/kg, Ø conc.: 0.56 μg/kg, country: Italy¹¹⁶, *Parmesan incidence: 1/100*, conc.: tr, country: France¹¹⁷, *Camembert incidence: 219/223*, conc. range: 0.005-0.100 μg/kg (203 sa), 0.101–0.250 μg/kg (15 sa), $>0.250 \mu g/kg$ (1 sa with a maximum of 0.37 μg/kg), country: Italy¹⁴¹, *Grana Padano incidence: 16/82*, conc. range: 0.005-0.05 μg/kg (9 sa), 0.051-0.100 μg/kg (1 sa), 0.101–0.250 μg/kg (4 sa), 0.251–0.400 μg/kg (2 sa), country: Italy142, *from France incidence: 9/34*, conc. range: 0.005–0.05 $\mu g/kg$ (8 sa), 0.051–0.100 $\mu g/kg$ (1 sa), country: Italy¹⁴², *from Germany incidence: 23/43*, conc. range: 0.005-0.05 $\mu g/kg$ (4 sa), 0.051–0.100 $\mu g/kg$ (8 sa), 0.101-0.250 μg/kg (11 sa), country: Italy¹⁴², *from The Netherlands

incidence: 26/98*, conc. range: 0.05-0.54 μ g/kg, \varnothing conc.: 0.0929 μ g/kg, country: Italy²⁰⁷, *cow incidence: 2/23*, conc. range: 0.09-0.25 μ g/kg, \varnothing conc.: 0.17 μ g/kg, country: Italy²⁰⁷, *goat incidence: 16/94*, conc. range: 0.05-0.21 μ g/kg, \varnothing conc.: 0.0953 μ g/kg, country: Italy²⁰⁷, *sheep incidence: 6/17*, conc. range: 0.05-0.14 μ g/kg, \varnothing conc.: 0.0833 μ g/kg, country: Italy²⁰⁷, *sheep–goat incidence: 8/85*, conc. range: 0.05-0.203 $\mu g/kg$, \varnothing conc.: 0.0954 $\mu g/kg$, country: Italy²⁰⁷, *buffalo incidence: 1/10*, conc.: 0.5 µg / l, country: Egypt²²¹, *Domiat incidence: 2/10*, conc. range: 3–6 µg/kg, Ø conc.: 4.6 µg/kg, country: Egypt²²¹, *Ras incidence: 46/51*, conc. range: ≤0.81 µg/kg, country: Turkey²²⁶ incidence: 56/75* ** ***, conc. range: 0.02-6.92 μg/kg, Ø conc.: 0.08 μg/kg, country: Brazil²⁷¹, *standard, **fresh, **Canastra, incidence: 5/9* **, conc. range: 20-72 µg/kg, Ø conc.: 42.6 μg/kg, country: Spain²⁸⁷, *fresh, **made of different types of milk incidence: 5/9* **, conc. range: 20-130 μg/kg, Ø conc.: 73.8 μg/kg, country: Spain²⁸⁷, *semiripened, **made of different types of incidence: 6/17* **, conc. range: 20-200 μg/kg, Ø conc.: 105.33 μg/kg, country: Spain²⁸⁷, *ripened, **made of different types incidence: 85/100*, conc. range: 0.051–0.15 μg/kg (42 sa), 0.151-0.25 μg/kg (9 sa), 0.251–0.45 μg/kg (13 sa), 0.451–0.65 μg/kg $(8 \text{ sa}), 0.651-0.8 \mu\text{g/kg} (9 \text{ sa}), >0.8 \mu\text{g/kg}$ (4 sa), country: Turkey²⁹⁸, *Kashar incidence: 79/100*, conc. range: 0.051-0.15 μg/kg (30 sa), 0.151–0.25 μg/kg (24 sa), 0.251-0.45 μg/kg (16 sa), 0.451-0.65 μg/kg (9 sa), country: Turkey²⁹⁸, *processed incidence: 81/100*, conc. range: 0.051-0.15 $\mu g/kg$ (41 sa), 0.151–0.25 $\mu g/kg$ (16 sa), 0.251-0.45 µg/kg (18 sa), 0.451-0.65 µg/kg

tulum incidence: 82/100, conc. range: 0.051-0.15 μg/kg (44 sa), 0.151-0.25 μg/kg (11 sa), 0.251–0.45 µg/kg (18 sa), 0.451–0.65 µg/kg (7 sa), 0.651–0.8 μg/kg (2 sa), country: Turkey²⁹⁸, *white incidence: 1/1* **, conc.: 0.312 μg/kg, country: Japan⁶⁸³, *imported?, **Camembert incidence: 2/2* **, conc. range: 0.064-0.087 $\mu g/kg$, \varnothing conc.: 0.076 $\mu g/kg$, country: Japan⁶⁸³, *imported?, **cream incidence: 1/1* **, conc.: 0.051 μg/kg, country: Japan⁶⁸³, *imported?, **Gouda incidence: 1/1* **, conc.: 0.448 μg/kg, country: Japan⁶⁸³, *imported?, **Münster incidence: 12/12*, conc. range: 0.02-0.05 μg/kg (8 sa), 0.06-0.1 μg/kg (4 sa, with a maximum of 0.09 μg/kg), country: UK⁷³⁵, *cheddar incidence: 13/13*, conc. range: 0.02–0.05 μg/kg (3 sa), 0.06–0.1 μg/kg (5 sa), 0.11–0.2 μg/kg (5 sa, with a maximum of 0.17 μg/kg), country: UK⁷³⁵, *Chesire incidence: 13/13*, conc. range: 0.02-0.05 μg/kg (4 sa), 0.06-0.1 μg/kg (8 sa), 0.13 μg/kg (1 sa), country: UK⁷³⁵, *Double Gloucester incidence: 11/11*, conc. range: 0.02-0.05 μg/kg (1 sa), 0.06–0.1 μg/kg (5 sa), 0.11–0.2 μg/kg (4 sa), 0.21 μg/kg (1 sa), country: UK⁷³⁵, *Lancashire incidence: 13/13*, conc. range: 0.02-0.05 μg/kg (6 sa), 0.06-0.1 μg/kg (7 sa, with a maximum of 0.09 μg/kg), country: UK⁷³⁵, *Leicester incidence: 11/11*, conc. range: 0.02–0.05 μg/kg (2 sa), 0.06–0.1 μg/kg (5 sa), 0.11–0.2 μg/kg (3 sa), 0.22 μg/kg (1sa), country: UK⁷³⁵, *Wensleydale incidence: 26/35*, conc. range: ≤0.79 µg/kg, country: Turkey⁸⁵⁸, *Turkish white incidence: 35/35*, conc. range: 0.015-0.585 μg/kg, country: Turkey858, *fresh kashar incidence: 25/25*, conc. range: 0.036-0.129 μg/kg, country: Turkey858, *old kashar incidence: 14/20*, conc. range: <0.372 µg/kg, country: Turkey⁸⁵⁸, *Gravyer incidence: 10/15*, conc. range: ≤0.358 µg/kg, country: Turkey858, *cream

(5 sa), $>0.8 \mu g/kg (1 \text{ sa})$, country: Turkey²⁹⁸,

see also butter, cheese (blue), gruel, ice cream, kidney (poultry), koshk, lactoserum powder, maize, milk, milk packets, milk powder, milk products, milk (buffalo), milk (camel), milk (cow), milk (goat), milk (human breast), milk (raw or dried, for infant formula), milk (sheep), milk (sheep/goat), milk (UHT), milk (whey powder), yogurt

CITRININ

incidence: 6/19*, conc. range: 74–224 μg/kg, Ø conc.: 125 μg/kg, country: India⁶⁰¹, *Bhutanese incidence: 17/44*, conc. range: ≤50 μg/kg,

country: UK⁷⁷³, *retail, domestic see also angkak (red mold rice), barley, cereals, food, food colorant, fruits (apple), maize, maize dough, meal (copra), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), oil seed rape, olives, rice, spices, spices (cardamom), spices (coriander), spices (cumin), spices (fennel), spices (pepper), spices (turmeric), wheat

CYCLOPIAZONIC ACID

incidence: 11/20*, conc. range: 0.05–0.1 μg/kg (3 sa), 0.1–0.2 μg/kg (5 sa), 0.2–1.5 μg/kg (3 sa), country: France⁷¹⁶, *crusts incidence: 3/14* **, conc. range: 80–370 μg/kg, Ø conc.: 233 μg/kg, country: Switzerland⁸⁰⁴, *and from France, **white mold

see also cassava, maize, milk (cow), nuts (peanut), pulp (tomato), tomato purée

Mycophenolic Acid

incidence: 6/15*, conc. range: 10–100 μg/kg (1 sa), 100–1000 μg/kg (3 sa), 1000–5000 μg/kg (2 sa), country: France⁷¹⁸, *industrial French

incidence: 3/6, conc. range: 10–100 μg/kg (1 sa), 100–1000 μg/kg (2 sa), country: France⁷¹⁸, *Bleu des Causses incidence: 52/235*, conc. range: 10–100 μg/kg (12 sa), 100–1000 μg/kg (14 sa), 1000–5000 μg/kg (17 sa), 5000–10,000 μg/kg (5 sa), 10,000–15,000 μg/kg (4 sa), country: France⁷⁹⁵, *different varieties see also cheese (blue)

Ochratoxin A

incidence: 2/33, conc. range: \leq 0.11 µg/kg, country: Germany⁵⁹²

incidence: $8/38^*$, conc. range: $\le 0.86 \mu g/kg$, country: Germany⁵⁹², *with ingredients incidence: $12/92^*$ **, conc. range: $\le 0.06 \mu g/kg$, country: Germany⁵⁹², *and yogurt with ingredients, **fresh

incidence: 5/19*, conc. range: 42–116 μg/kg, Ø conc.: 84.2 μg/kg, country: India⁶⁰¹, *Bhutanese

incidence: 18/44*, conc. range: ≤260 µg/kg, country: UK⁷⁷³, * retail, domestic, wholesale see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork,

pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

OCHRATOXINS (A, B)

incidence: 1/20*, conc.: 112 μg/kg, country: Egypt⁶¹¹, *cottage

PATULIN

incidence: 6/235*, conc. range: 30–355 µg/kg, country: France⁷⁹⁵, *different varieties see also apple cider, apple flavor, apples (stewed fruit), berries (blueberry), berries (lingnonberry), berries (mulberry), berries (raspberry), berries (strawberry), cassava, food (baby), fruit products, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (pear), fruits (plum), jam, jam (apple), juice, juice (apple), juice (apple-acerola), juice (apple, concentrate), juice (cherry), juice (currant), juice (fruit), juice (grape), juice (orange), juice (peach), juice (pear), must, pulp (plum), syrup (apple), vinegar

PENICILLIC ACID

incidence: 12/235*, conc. range: tr–820 μg/kg, country: France⁷⁹⁵, *different varieties see also beans, cassava, maize

PENITREM A

incidence: 1/1* **, conc.: nc, country: USA⁸⁰⁰, *visible moldy, **cream

Sterigmatocystin

incidence: $35/100^*$ **, conc. range: 14.9–32.8 µg/kg, \varnothing conc.: 23.5 µg/kg, country: Egypt⁷⁵³, *Ras, **outer surface layer (1 cm) incidence: $3/66^*$ **, conc. range: 7.5–17.5 µg/kg, \varnothing conc.: 10.8 µg/kg,

country: Czechoslovakia⁷⁵⁴, *hard, **outer surface layer (1cm) incidence: 9/39*, conc. range: 5–600 μg/kg** ***, Ø conc.: 80.7 μg/kg, country: The Netherlands⁷⁵⁵, *hard, **outer surface layer (1 cm), ***estimated incidence: 3/235*, conc. range: 45–330 μg/kg, Ø conc.: 167 μg/kg, country: France⁷⁹⁵, *different varieties see also barley, cassava, coffee, maize, nuts (almond), nuts (pecan), nuts (pistachio), oil seed rape, rice, spices, spices (fennel), spices (pepper), wheat

ZEARALENONE

incidence: 5/20*, conc. range: 4.8–13.1 μg/kg, Ø conc.: 10.4 μg/kg, country: Egypt⁴⁴³, *Hard Roume

incidence: 6/25*, conc. range: 2.2–11.2 μg/kg, Ø conc.: 8.9 μg/kg, country: Egypt⁴⁴³, *Kariesh

see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Cheese (blue) may contain the following mycotoxins:

AFLATOXIN M₁ incidence: 5/5, conc. range: tr (4 sa), <0.1 μ g/kg (1 sa), country: Germany⁷

63 Chestnut

incidence: $7/7^*$, conc. range: 0.084-0.556 µg/kg, \varnothing conc.: 0.233 µg/kg, country: Japan⁷¹, *from Denmark

see also butter, cheese, gruel, ice cream, kidney (poultry), koshk, lactoserum powder, maize, milk, milk packets, milk powder, milk products, milk (buffalo), milk (camel), milk (cow), milk (goat), milk (human breast), milk (raw or dried, for infant formula), milk (sheep), milk (sheep/goat), milk (UHT), milk (whey powder), yogurt

Isofumigaclavine A

incidence: 5/12* **, conc. range: 20–4700 µg/kg, country: Canada⁸⁰⁵, *from Denmark, England, Finland, France, Italy, W. Germany, **includes "mold-free" and "high-mold" sa

Isofumigaclavine B

incidence: 6/12* **, conc. range: tr, country: Canada⁸⁰⁵, *from Denmark, England, Finland, France, Italy, W. Germany, **includes "mold-free" and "high-mold" sa

Mycophenolic Acid

incidence: 21/25, conc. range: 10–100 μg/kg (1 sa), 100–1000 μg/kg (2 sa), 1000–5000 μg/kg (10 sa), 5000–10,000 μg/kg (5 sa), 10,000–15,000 μg/kg (3 sa, with a maximum of 14,300 μg/kg), country: France⁷¹⁸ incidence: 3/12*, conc. range: 10–100 μg/kg, country: France⁷¹⁸, *Gorgonzola incidence: 3/12*, conc. range: 10–100 μg/kg (2 sa), 100–1000 μg/kg (1 sa), country: France⁷¹⁸, *German blue incidence: 2/2*, conc. range: 1000–5000 μg/kg (2 sa), country: France⁷¹⁸, *melted see also cheese

PR IMINE

incidence: 10/60, conc. range: 19–42 μg/kg, country: Canada⁸¹⁴

ROQUEFORTINE

incidence: $2/2^*$ **, conc. range: 210–650 µg/kg, \varnothing conc.: 430 µg/kg, country: Italy³⁰⁸, *Great Britain, Ireland, **Stilton incidence: $13/13^*$, conc. range: 200–2290 µg/kg, \varnothing conc.: 932 µg/kg, country: Switzerland⁸⁰⁴, *and from Denmark, France, Italy

incidence: 10/12* **, conc. range: 60–6800 µg/kg, country: Canada⁸⁰⁵, *from Denmark, England, Finland, France, Italy, W. Germany, **includes "mold-free" and "high-mold" sa incidence: 12/12, conc. range: 162–651 µg/kg, \varnothing conc.: 424 µg/kg, country: USA⁸²⁹ incidence: 2/2*, conc. range: 18–72 µg/kg, \varnothing conc.: 45 µg/kg, country: USA⁸²⁹, *dressing

ROQUEFORTINE C

incidence: 3/3*, conc. range: 50–690 µg/kg, \varnothing conc.: 420 µg/kg, country: Italy³⁰⁸, *from France, Greece

incidence: 3/3* **, conc. range: 970–1470 μg/kg, Ø conc.: 1257 μg/kg, country: Italy³⁰⁸, * from Denmark, Iceland, **Danablu incidence: 2/2* **, conc. range: 240–300 μg/kg, Ø conc.: 270 μg/kg, country: Italy³⁰⁸, *from Austria, Germany, **Edelpilzkäse incidence: 20/20*, conc. range: 70–1440 μg/kg, Ø conc.: 367 μg/kg, country: Italy³⁰⁸, *Gorgonzola

Cheese crust

see Cheese

Cherry

see Fuits (cherry)

Chester cheese

see Cheese

Chestnut may contain the following mycotoxins:

Aflatoxin B_1

incidence: 10/118, conc. range: <0.4 μg/kg, country: Cyprus⁷⁴

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drink, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruit products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and

Chestnut 64

medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXINS (B_1 , G_1) incidence: 3/5, conc. range: 20–60 µg/kg, country: Saudi Arabia²² see also beer, nuts (peanut), nuts (peanut butter)

Chicken may contain the following mycotoxins:

OCHRATOXIN A incidence: 36/65, conc. range: \leq 0.18 µg/kg, \varnothing conc.: 0.03 µg/kg, country: Denmark⁶²⁴

see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rve), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices

65 Chips (maize)

(tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Chicken muscle may contain the following mycotoxins:

OCHRATOXIN A

incidence: 2/50, conc. range: 12.5-21 µg/kg, Ø conc.: 17 μg/kg, country: Egypt⁷²¹ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame

seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Chilli

see Spices (chilli)

Chilli pickle

see Spices (chilli pickle)

Chilli powder

see Spices (chilli powder)

Chilli sauce

see Spices (chilli sauce)

Chillies/cayenne

see Spices (chilli)

Chips (maize) may contain the following mycotoxins:

Deoxynivalenol

incidence: 2/6, conc. range: 2000–3000 μg/kg, Ø conc.: 2500 μg/kg, country: USA⁴²⁴ see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat Chips (maize) 66

products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

Fumonisin B₁

incidence: 2/2, conc.: tr–37 μg/kg, country:

Canada⁴⁰⁵

incidence: 1/2, conc.: 73 μg/kg, country:

Canada⁶¹⁴

incidence: $7/7^*$, conc. range: $17-260 \mu g/kg$, \varnothing conc.: $143 \mu g/kg$, country: Sweden⁶⁸²,

*imported?

see also arepas, asparagus, barley, batter, beans, beer, bran (maize), bread, cake (rice), cereals, cereals (breakfast), chamomile, chips (tortilla), flakes (corn), flour (maize), food, food (baby), foodstuff, grits (maize), Incaparina, leaves, maize, maize fiber, maize muffin, maize products, maize silk, maize starch, masa, meal (maize), meal (sorghum), milk, muffin mix, nuts (peanut), pancake, popcorn, rapoko, rice, snacks, sorghum, soybeans, syrup (sorghum), tea, tortillas, wheat

Fumonisin B₂

incidence: $5/7^*$, conc. range: $18-71 \mu g/kg$, \varnothing conc.: $38 \mu g/kg$, country: Sweden⁶⁸², *imported?

see also arepas, asparagus, barley, batter, beer, bran (maize), cereals, cereals (breakfast), chips (tortilla), flakes (corn), flour (maize), food (baby), foodstuff, grits (maize), Incaparina, maize, maize fiber, maize starch, masa, meal (maize), muffin mix, pancake, popcorn, rice, snacks, tortillas, wheat

Chips (tortilla) may contain the following mycotoxins:

Fumonisin B₁

incidence: 1/2, conc.: 60 μg/kg, country: Italv³⁶²

incidence: 2/2, conc. range: 310–320 μ g/kg, \varnothing conc.: 315 μ g/kg, country: USA³⁶⁹ incidence: 8/12, conc. range: tr–216 μ g/kg,

country: Canada⁴⁰⁵ incidence: 1/2, conc.: 30 μg/kg, country.

USA⁴¹⁰

incidence: 6/13, conc. range: 48–134 μg/kg, Ø conc.: 79.3 μg/kg, country: Canada⁶¹⁴ see also arepas, asparagus, barley, batter, beans, beer, bran (maize), bread, cake (rice), cereals, cereals (breakfast), chamomile, chips (maize), flakes (corn), flour (maize), food, food (baby), foodstuff, grits (maize), Incaparina, leaves, maize, maize fiber, maize muffin, maize products, maize silk, maize starch, masa, meal (maize), meal (sorghum), milk, muffin mix, nuts (peanut), pancake, popcorn, rapoko, rice, snacks, sorghum, soybeans, syrup (sorghum), tea, tortillas, wheat

Fumonisin B₂

incidence: 1/2, conc.: 10 μ g/kg, country: Italy³⁶²

see also arepas, asparagus, barley, batter, beer, bran (maize), cereals, cereals (breakfast), chips (maize), flakes (corn), flour (maize), food (baby), foodstuff, grits (maize), Incaparina, maize, maize fiber, maize starch, masa, meal (maize), muffin mix, pancake, popcorn, rice, snacks, tortillas, wheat

Fumonisin B₁, Hydrolyzed (HBF₁) incidence: 2/2, conc.: pr, country: USA³⁶⁹ incidence: 3/13, conc. range: 13–47 μ g/kg, \varnothing conc.: 28.6 μ g/kg, country: Canada⁶¹⁴ see also maize, masa, tortillas

Fumonisins

incidence: 14?/14*, conc. range: 200–1450 μ g/kg, country: USA³⁵⁷, *white incidence: 1/1*, conc.: 400 μ g/kg, country: USA³⁵⁷, *yellow

incidence: 2/2*, conc. range: 400–1000 μg/kg, Ø conc.: 700 μg/kg, country: USA³⁵⁷, *blue incidence: 2/2*, conc. range: 300–400 μg/kg, Ø conc.: 350 μg/kg, country: USA³⁵⁷, *organic blue

see also beer, bread, cereal (infant), flakes (corn), flour (maize), grits (maize), maize, maize pops cereal, maize products, maize starch, maize (infant cream corn), meal (maize), muffin mix, pasta, popcorn, porridge, products, sorghum, tortillas

67 Chocolate

Chips (yam) may contain the following mycotoxins:

Aflatoxin B_1

incidence: 17/76, conc. range: 8.5-80.4 µg/kg, Ø conc.: 27.1 μg/kg, country: Nigeria⁸⁷⁴ see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chocolate,cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drink, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruit products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger),

spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Chocolate may contain the following mycotoxins:

Aflatoxin B_1 incidence: 1*/?, conc.: 15 μg/kg, country: Kenya⁷⁴⁶, *cake mix see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drink, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruit products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas,

Chocolate 68

poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxin B₂

incidence: 1*/?, conc.: 15 μg/kg, country: Kenya⁷⁴⁶, *cake mix see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

OCHRATOXIN A

incidence: 36/39*, conc. range: ≤0.41 µg/kg, country: Germany⁵⁹², *whole milk

incidence: 78/78*, conc. range: 0.02-0.66 μg/kg, country: Germany⁵⁹², *half bitter/bitter incidence: 31/35*, conc. range: <0.16 µg/kg, country: Germany⁵⁹², *with nuts incidence: 55/58*, conc. range: ≤0.34 µg/kg, country: Germany⁵⁹², *filled incidence: 30/40*, conc. range: 0.1 µg/kg (12 sa), 0.2-4 µg/kg (18 sa, with a maximum of 0.6 μg/kg), country: UK⁶³⁸, *and from different countries incidence: 86/87*, conc. range: 0.025-4.289 μg/kg, country: Spain⁶⁷⁸, *and from different countries incidence: 169/169* **, conc. range: 0.012–0.693 μg/kg, country: Spain⁶⁷⁸, *and from different countries, **with milk incidence: 14/14* **, conc. range: 0.016-0.19 μg/kg, country: Spain⁶⁷⁸, *and from different countries, **white see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, ligourice, ligourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must,

69 Cocoa

noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Chocolate and chocolate cream may contain the following mycotoxins:

OCHRATOXIN A

incidence: 8/11, conc. range: 0.1-1.59 µg/kg, Ø conc.: 0.63 μg/kg, country: Spain²⁴³ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit),

juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Cider

see Apple cider

Cocoa may contain the following mycotoxins:

AFLATOXIN B₁

incidence: 1/40* **, conc.: 5 µg/kg, country: Norway¹⁹⁸, *and cocoa products, **imported see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas,

Cocoa 70

dates, drink, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruit products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂ incidence: 1/40*, conc.: tr, country: Norway¹⁹⁸, *and cocoa products, **imported see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, congressbele,

dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

AFLATOXIN G₁ incidence: 1/40*, conc.: 4 μg/kg, country: Norway¹⁹⁸, *and cocoa products, **imported see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices

71 Cocoa beans

(mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

Aflatoxin G_2

incidence: 1/40*, conc.: tr, country: Norway¹⁹⁸, *and cocoa products, **imported see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

Cocoa beans may contain the following mycotoxins:

AFLATOXIN B₁

incidence: 14/200, conc. range: 1–10 μg/kg (14 sa), country: Cuba⁴⁷

incidence: 4/151* **, conc. range: ≤2.6 μg/kg, country: USSR¹⁹¹, *and products, **imported incidence: 1/1*, conc.: 0.6 μg/kg, country: Japan³⁴⁶, *imported

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drink, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruit products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam

(bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXINS (B₁, B₂, G₁, G₂) incidence: 3/91*, conc. range: 2–20 µg/kg (1 sa), >20 µg/kg (2 sa), country: Uruguay⁷⁸⁷, *and by-products see also barley, beans, bread, cereals, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts

Cocoa beans 72

(walnut), oil, oil seeds, paste (fig), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

OCHRATOXIN A

incidence: 16/21, conc. range: 0.1– $3.5 \mu g/kg$, \varnothing conc.: $0.45 \mu g/kg$, country: Ivory Coast²⁴³, and from Guinea, Cameroon, Nigeria, Senegal

incidence: 29/46*, conc. range: 0.041–14.8 μg/kg, Ø conc.: 1.71 μg/kg, country: Spain²⁴⁸, * from Ivory Coast, Cameroon, Equatorial Guinea

see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk

(human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Cocoa cake

see Cake (cocoa)

Cocoa drinks

see Drink (cocoa)

Cocoa hazelnut cream may contain the following mycotoxins:

Aflatoxin B₁

incidence: 19/25, conc. range: ≤3.725 μg/kg, country: Turkey⁸⁵⁸

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drink, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruit products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits

73 Cocoa mass

(maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine **Cocoa mass** may contain the following

mycotoxins:

OCHRATOXIN A

incidence: 4/8*, conc. range: 0.1–3.5 µg/kg, Ø conc.: 1.07 μg/kg, country: Ivory Coast²⁴³, *and from Cameroon see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat,

butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits,grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liquerice, liquerice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Cocoa powder 74

Cocoa powder may contain the following mycotoxins:

OCHRATOXIN A

incidence: 29/31*, conc. range: 0.1–4.4 μg/kg, Ø conc.: 2.41 μg/kg, country: Ivory Coast²⁴³, *and from Guinea, Cameroon, Nigeria incidence: 40/40, conc. range: 0.09–1.8 μg/kg, country: Germany⁵⁹²

incidence: 20/20*, conc. range: 0.2–4 μg/kg (20 sa, with a maximum of 2.4 μg/kg), country: UK⁶³⁸, *from different countries incidence: 25/26*, conc. range: 0.053–0.932 μg/kg, country: Spain⁶⁷⁸, *and from different countries

incidence: 9/18*, conc. range: 0.22-0.77 μg/kg, Ø conc.: 0.43 μg/kg, country: Italy⁶⁸⁰, *and from different countries see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts

(pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Coconut

see Nuts (coconut)

Coconut oil

see Oil (coconut)

Coconut products

see Nuts (coconut products)

Coffee may contain the following mycotoxins:

AFLATOXINS (B_1, B_2, G_1) incidence: $1/1^*$, conc.: 8 µg/kg, country: Guatemala³³, *unroasted see also maize, meal (maize), nuts (peanut), rice

OCHRATOXIN A

incidence: 2/4*, conc. range: 10–90 µg/kg, \varnothing conc.: 50 µg/kg, country: GDR¹⁷⁸, *moldy incidence: 16/16*, conc. range: 0.5–5.1 µg/kg, \varnothing conc.: 2.2 µg/kg, country: Brazil²¹⁶, *instant incidence: 23/34* **, conc. range: 0.3–6.5 µg/kg, \varnothing conc.: 1.4 µg/kg, country: Brazil²¹⁶, *2 sa were decaffeinated and not contaminated, **roasted, ground

75 Coffee

incidence: $52/113^*$ **, conc. range: ≤ 6.32 $\mu g/kg$, \varnothing conc.: 1.15 $\mu g/kg$, country: Germany⁵⁸¹, *imported, **roasted, ground incidence: 32/67* **, conc. range: ≤3.34 $\mu g/kg$, \varnothing conc.: 1.01 $\mu g/kg$, country: Germany⁵⁸¹, *imported, **roasted, ground, decaffeinated incidence: $21/60^*$ **, conc. range: ≤ 4.75 μg/kg, Ø conc.: 1 μg/kg, country: Germany⁵⁸¹, *imported, **roasted, ground, mild incidence: 46/52* **, conc. range: ≤9.47 μ g/kg, \varnothing conc.: 2.05 μ g/kg, country: Germany⁵⁸¹, *imported, **instant incidence: 19/32* **, conc. range: ≤1.8 µg/kg, Ø conc.: 0.89 μg/kg, country: Germany⁵⁸¹, *imported, **instant, decaffeinated incidence: $5/33^*$ **, conc. range: $\leq 0.96 \mu g/kg$, Ø conc.: 0.65 μg/kg, country: Germany⁵⁸¹, *imported, **malt incidence: 2/2*, conc. range: 3.8–23 µg/kg, Ø conc.: 13.4 μg/kg, country: Italy⁵⁸⁴, *from Ivory Coast, Uganda incidence: 22/38* **, conc. range: 0.17-0.91 μ g/kg, \varnothing conc.: 0.5 μ g/kg, country: Hungary⁵⁹³, *imported, **roasted incidence: 11/12* **, conc. range: 0.34-1.3 $\mu g/kg$, \varnothing conc.: 0.72 $\mu g/kg$, country: Hungary⁵⁹³, *imported, **blended with Ersatz coffee (roasted barley) incidence: 5/16* **, conc. range: 0.1-0.3 μg/kg (2 sa), 0.3–0.5 μg/kg (3 sa), country: Taiwan⁶⁰⁷, *imported?, **instant incidence: 8/19* **, conc. range: 0.1-0.3 μg/kg (5 sa), 0.3–0.5 μg/kg (3 sa), country: Taiwan⁶⁰⁷, *imported?, **ready-to-drink incidence: 11/11* **, conc. range: ≤3.2 µg/kg, \emptyset conc.: 0.51 µg/kg, country: Denmark⁶²⁴, *imported, **roasted incidence: 25/30* **, conc. range: >nd-<0.3 μg/kg (5 sa), 0.3-1 μg/kg (11 sa), 1-5 μg/kg (6 sa), 5-8 μg/kg (3 sa, with a maximum of 7.54 µg/kg), country: Germany⁶²⁷, *imported?, **roasted incidence: 3/66* **, conc. range: tr-80 µg/kg, country: USA⁶³¹, *from different countries, **commercial incidence: 38/59* **, conc. range: <0.1-2.3 $\mu g/kg$, \varnothing conc.: 0.63 $\mu g/kg$, country: Canada⁶³², *imported, **roasted, ground

incidence: 4/12* **, conc. range: <0.1-1.3 $\mu g/kg$, \varnothing conc.: 0.55 $\mu g/kg$, country: Canada⁶³², *imported, **roasted, ground, decaffeinated incidence: 15/21* **, conc. range: <0.1-3.1 $\mu g/kg$, \varnothing conc.: 1.11 $\mu g/kg$, country: Canada⁶³², *imported, **instant incidence: 5/9* **, conc. range: <0.1–2.5 $\mu g/kg$, \varnothing conc.: 0.9 $\mu g/kg$, country: Canada⁶³², *imported, **instant, decaffeinated incidence: 1/29* **, conc.: 3 μg/kg, country: Germany⁶⁴⁰, *imported, **roasted incidence: 191/419* **, conc. range: 0.21–12.1 μg/kg, country: Germany⁶⁵⁰, *imported, **roasted incidence: 26/71* ** ***, conc. range: 0.15–2.7 μg/kg, country: Germany⁶⁵⁰, *imported, **roasted, decaffeinated, ***and low acid decaffeinated roasted coffee incidence: 29/41* **, conc. range: 0.28-4.8 μg/kg, country: Germany⁶⁵⁰, *imported, incidence: 11/12* ** ***, conc. range: 0.2-8 μg/kg, country: UK⁶⁵¹, *imported, **powder, ***decaffeinated and nondecaffeinated incidence: 31/36* ** ***, conc. range: 0.1-4.9 μg/kg, country: UK⁶⁵¹, *imported, **granules, ***decaffeinated and nondecaffeinated incidence: 22/32* ** ***, conc. range: 0.2–3 μg/kg, country: UK⁶⁵¹, *imported, **freeze-dried, ***decaffeinated and nondecaffeinated incidence: 17/20* **, conc. range: 0.2–2.1 μg/kg, country: UK⁶⁵¹, *imported, **roast and ground, nondecaffeinated incidence: 75/101* **, conc. range: 0.2-6.5 μg/kg, country: Switzerland⁶⁵⁴, *from different countries, **pure, soluble incidence: 15/15* **, conc. range: 1.2-15.9 μg/kg, country: Switzerland⁶⁵⁴, *from different countries, **adulterated, soluble incidence: 334/633* **, conc. range: ≤27.2 $\mu g/kg$, \varnothing conc.: 0.9 $\mu g/kg$ (of all sa), country: Germany⁶⁶⁶, *from different countries, **partly roasted and ground, partly decaffeinated, partly instant, partly mixed incidence: 9/13* **, conc. range: 0.1-1.2 $\mu g/kg$ (9 sa), \varnothing conc.: 0.4 $\mu g/kg$, country: USA⁶⁸⁵, *from South America, **roasted

Coffee 76

incidence: 5/68*, conc. range: 3.2–17 µg/kg, Ø conc.: 7.6 μg/kg, country: Japan⁶⁸⁶, *imported see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits,grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard),

spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

STERIGMATOCYSTIN

incidence: 1/2*, conc.: 1143 µg/kg, country: South Africa⁷⁵⁶, *condemned as unfit for human consumption see also barley, cassava, cheese, maize, nuts (almond), nuts (pecan), nuts (pistachio), oil seed rape, rice, spices, spices (fennel), spices (pepper), wheat

Coffee beans (green) may contain the following mycotoxins:

Aflatoxin B_1

incidence: 6/57, conc. range: \leq 3.5 µg/kg, country: USSR¹⁹¹

incidence: 15*/47, conc. range: 0.002–0.0329 µg/kg, country: Japan²⁴⁷, *from Yemen,

Tanzania, Indonesia see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coix seed, congressbele, cottonseed, cowpeas, dates, drink, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruit products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast),

77 Coffee beans (green)

milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

OCHRATOXIN A

incidence: 27/132, conc. range: 0.7–47.8 μg/kg, Ø conc.: 7.1 μg/kg, country: Brazil²¹² incidence: 15*/47, conc. range: 0.1–17.4 μg/kg, country: Japan²⁴⁷, *from Yemen, Tanzania, Indonesia

incidence: 13/25*, conc. range: 0.9–56 μg/kg, Ø conc.: 10.3 μg/kg, country: Switzerland³¹⁸, *from different countries and unknown origin

incidence: 15/68, conc. range: 0.84–4.7 μg/kg, Ø conc.: 2.85 μg/kg, country: Brazil⁵⁵⁵ incidence: 9/40*, conc. range: 0.5–23 μg/kg, Ø conc.: 4.3 μg/kg, country: Italy⁵⁸⁴, *from different countries

incidence: 2/13* **, conc. range: 58–168 μg/kg, Ø conc.: 113 μg/kg, country: Belgium⁶⁰⁰, *from different countries, **arabica

incidence: $3/8^*$ **, conc. range: 4–27 µg/kg, \varnothing conc.: 15.7 µg/kg, country: Belgium⁶⁰⁰, *from different countries, **robusta

incidence: 41/41* **, conc. range: <5 μg/kg (22 sa), 5–10 μg/kg (10 sa), 10–20 μg/kg (6 sa), >20 not higher than 31.5 µg/kg (3 sa), country: Spain⁶⁰⁶, *from different countries, **arabica incidence: 16/16* **, conc. range: <5 µg/kg (8 sa), 5–10 μ g/kg (7 sa), >20 not higher than 31.5 µg/kg (1 sa), country: Spain⁶⁰⁶, *from different countries, **robusta incidence: 19/267* **, conc. range: tr-360 μg/kg, country: USA⁶³¹, *from different countries, **hand-selected incidence: 13/22*, conc. range: tr-5.5 µg/kg, country: Italy⁶⁴⁵, *from different countries incidence: 6/7*, conc. range: tr-15 μg/kg, country: Italy⁶⁴⁵, *from Cameroon, Ivory Coast, Zaire incidence: 22/82*, conc. range: 0.23-24.5 μg/kg, country: Germany⁶⁵⁰, *imported incidence: 106/162*, conc. range: 0.1-48 μg/kg, Ø conc.: 4.1 μg/kg, country: Italy⁶⁵⁷, *from different countries incidence: 9/19*, conc. range: 0.1-4.6 µg/kg (9 sa), Ø conc.: 1.4 μg/kg, country: USA⁶⁸⁵, *from South America incidence: 3/20*, conc. range: 12.4-13.7 μg/kg, country: Egypt⁷²¹, *green? incidence: 110/291* **, conc. range: 0.26–1 μg/kg (67 sa), 1–5 μg/kg (30 sa), 5–10 μg/kg (10 sa), >10 μ g/kg (3 sa), \varnothing conc.: 17.4 μg/kg, country: UK⁷³⁸, *arabica, robusta and other, **imported incidence: 46/200, conc. range: 22.8-66 μg/kg, Ø conc.: 33.8 μg/kg, country: Egypt⁷⁴⁸ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food

Coffee beans (green) 78

(infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits,grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Coix seed may contain the following mycotoxins:

AFLATOXIN B₁

incidence: 5/49, conc. range: $0.1-0.6 \mu g/kg$, \varnothing conc.: $0.4 \mu g/kg$, country: Japan⁹⁹ see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips

(yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), congressbele, cottonseed, cowpeas, dates, drink, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruit products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Congressbele may contain the following mycotoxins:

79 Coppa

Aflatoxin B_1

incidence: 9/41, conc. range: 6-1100 µg/kg, country: India148

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, cottonseed, cowpeas, dates, drink, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruit products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices

(pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂

incidence: 5/41, conc. range: 4-700 µg/kg, country: India148 see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Coppa may contain the following mycotoxins:

OCHRATOXIN A

incidence: 5/18, conc. range: $\leq 0.24 \,\mu g/kg$, \varnothing conc.: 0.12 µg/kg, country: Italy³²² see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa

Coppa 80

powder, coffee, coffee beans (green), copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Copra may contain the following mycotoxins:

Ochratoxin A incidence: 1/384, conc.: 50 μg/kg, country: India⁷⁹⁴

see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower

81 Cottonseed

seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Copra meal

see Meal (copra)

Coriander

see Spices (coriander)

Corn

see Maize

Corn flakes

see Flakes (corn)

Corn flour

see Flour (maize)

Corn foods

see Food

Corn instant porridge

see Porridge

Corn kernels

see Maize

Corn on the cob may contain the following mycotoxins:

Moniliformin

incidence: $2/19^*$, conc. range: $<15 \mu g/kg$, country: UK^{743} , *from different countries see also barley, flakes (corn), flour (maize), foodstuff, grits (maize), maize, maize-based thickeners, meal (maize), oats, popcorn, rye, snacks, triticale, wheat

Corn pastas

see Pasta

Corn starch

see Starch (maize)

Corn-based thickeners

see Maize-based thickeners

Corn-extruded bread

see Bread

Corn-extruded products

see Products

Cottage cheese

see Cheese

Cottonseed may contain the following mycotoxins:

Aflatoxin B₁

incidence: 1/18, conc.: 489.6 μg/kg, country: Egypt¹⁴⁴

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cowpeas, dates, drink, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruit products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds,

Cottonseed 82

shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Cottonseed meal

see Meal (cottonseed)

Cow liver

see Liver (cow)

Cowpeas may contain the following mycotoxins:

Aflatoxin B_1

incidence: 5/16, conc. range: 26–68 μg/kg,

country: India398

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, dates, drink, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruit products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk

products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxins (B_1, B_2, G_1, G_2) incidence: 4/20*, conc. range: 45-112 µg/kg, Ø conc.: 75.8 μg/kg, country: Egypt⁴⁸⁶, *ncac see also barley, beans, bread, cereals, cocoa beans, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (fig), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

83 Crème puddings

Crackers may contain the following mycotoxins:

Deoxynivalenol

incidence: 6/18*, conc. range: 1600-5400 μg/kg, Ø conc.: 2800 μg/kg, country: USA⁴²⁴, */cookies, made from wheat and oat see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

ZEARALENONE

incidence: 3/18*, conc. range: 10–16 µg/kg, Ø conc.: 12 µg/kg, country: USA424, */cookies, made from wheat and oat see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Cream cheese

see Cheese

Crème puddings may contain the following mycotoxins:

incidence: 27/32*, conc. range: ≤0.08 µg/kg,

OCHRATOXIN A

country: Germany⁵⁹², *choco cremes incidence: 7/32*, conc. range: ≤0.09 μg/kg, country: Germany⁵⁹², *different puddings and see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts

(walnut), oats, oil (olive), oil (sesame), olives,

pasta, pastries, peas, pig blood, pig muscle,

pumpernickel, ragi, raisins, rice, rolls, rusk,

pig serum, pig (black pudding), plant

commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses,

Crème puddings 84

rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Crispbread

see Knäckebröd

Croissant may contain the following mycotoxins:

Deoxynivalenol

incidence: 8/8*, conc. range: 326-648 µg/kg, country: Argentina⁵⁰⁵, *butter incidence: 4/5*, conc. range: 336-563 µg/kg, country: Argentina⁵⁰⁵, *fat see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

Cumin

see Spices (cumin)

Currants may contain the following mycotoxins:

OCHRATOXIN A

incidence: 43/54, conc. range: nd-13.8 µg/kg, country: Greece²⁶³ incidence: 19/20*, conc. range: 1->23.6 μg/kg, country: UK⁶³⁵, *from Greece incidence: 96/100*, conc. range: 0.2-4.0 µg/kg (62 sa), 4.1-10 μg/kg (22 sa), 10.1-20 μg/kg (7 sa), 20.1–30 μg/kg (4 sa), 40.8 μg/kg (1 sa), country: UK⁶³⁸, *from different countries see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits,grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame

85 Dates

seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Currants and raisins

see Raisins

Curry

see Spices (curry)

Curry paste

see Spices (curry paste)

Curry powder

see Spices (curry powder)

Dairy products

see Milk products

Danish blue

see Cheese (blue)

Dates may contain the following mycotoxins:

Aflatoxin B₁

incidence: 1/6*, conc.: 19 µg/kg, country: India⁸⁰², *date palm see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, drink, figs, fish, flakes (corn), flour, flour

incidence: 2/26, conc. range: 0.05-0.1 µg/kg

(2 sa), \varnothing conc.: 0.09 µg/kg, country: France³⁹⁷

(gram), flour (maize), flour (wheat), food, food (infant), fruit products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂ incidence: 1/6*, conc.: 15 μg/kg, country: India⁸⁰², *date palm see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa,

Dates 86

congressbele, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

AFLATOXIN G₁ incidence: 1/6*, conc.: 14 μg/kg, country: India⁸⁰², *date palm see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices

(mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

OCHRATOXIN A

incidence: $3/30^*$, \varnothing conc. range: 0.3–3.3 µg/kg, country: Germany⁶⁴⁰, *imported incidence: $1/20^*$, conc.: <4 µg/kg, country: UK⁷⁴², *imported

incidence: 1/6*, conc.: pr, country: India⁸⁰², *date palm

incidence: 1/12*, conc.: 0.9 μg/kg, country: UK⁸³⁴, *imported

incidence: 2/22* **, conc. range: 0.1–5 µg/kg (2 sa), country: Brazil⁸⁶⁵, *from worldwide, **dried

see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive),

87 Drink

oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Dessert wine

see Wine

Domiat cheese

see Cheese

Double gloucester cheese

see Cheese

Drink may contain the following mycotoxins:

Aflatoxin B_1

incidence: 1/22* **, conc.: 0.06 μg/kg, country: Belgium²⁸³, *soft, **tiger nut-based ("horchata")

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruit products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice

(mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

OCHRATOXIN A

incidence: 2/2*, conc. range: 0.1–0.3 μg/kg (dry matter), Ø conc.: 0.2 μg/kg, country: Switzerland⁶⁹², *malt-based breakfast see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink

Drink 88

(cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Drink (cocoa) may contain the following mycotoxins:

OCHRATOXIN A

incidence: 51/56*, conc. range: ≤0.63 μg/kg, country: Germany⁵⁹², *chocolate drinks

incidence: $34/34^*$, conc. range: $\leq 0.05 \,\mu g/kg$, country: Germany⁵⁹², *ready-mixed see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper),

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spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Drink (malt) may contain the following mycotoxins:

OCHRATOXIN A

incidence: 2/25, conc. range: 0.05-0.09 µg/kg (2 sa), country: Germany⁶²³ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame

seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Dried apricot

see Fruits (apricot)

Dried fruits

see Fruits

Dried vegetables

see Vegetables

Drugs may contain the following mycotoxins:

OCHRATOXIN A

incidence: 5/6*, conc.: 2.63–50.3 μg/kg, country: Germany311, *with special indication see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant),

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juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Duck may contain the following mycotoxins:

OCHRATOXIN A

incidence: 11/19, conc. range: ≤0.09 μg/kg, Ø conc.: 0.02 μg/kg, country: Denmark⁶²⁴ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava),

flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Duck liver

see Liver (duck)

Durum grits

see Grits (durum)

Durum wheat

see Wheat

Edam cheese

see Cheese

91 Figazzas

Edelpilzkäse

see Cheese (blue)

Egusi meal

see Meal (egusi)

Emu aran may contain the following mycotoxins:

Aflatoxin B

incidence: 2/2, conc. range: 83–86 μg/kg, country: Nigeria⁴ see also meal (egusi), ogbono, ogili-ugba, ogoro

Enchilada

see Tortillas

Export

see Beer

Extrudates may contain the following mycotoxins:

OCHRATOXIN A

incidence: $10/33^*$, conc. range: $\leq 2.1 \, \mu g/kg$, country: Germany⁵⁹², *and chips, popcorn see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow),

liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Farmer's cheese

see Cheese

Fennel

see Spices (fennel)

Fenugreek

see Spices (fenugreek)

Figazzas may contain the following mycotoxins:

Deoxynivalenol

incidence: 8/8, conc. range: 212–2800 μg/kg, country: Argentina⁵⁰⁵ see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals

Figazzas 92

(breakfast), chips (maize), crackers, croissant, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

Fig paste

see Paste (fig)

may contain the following mycotoxins:

Aflatoxin B_1

incidence: 8/206* **, conc. range: 3.6-320 μg/kg, Ø conc.: 112 μg/kg, country: Turkey³⁰, *lower grade figs, **dried incidence: 2/4*, conc. range: 2.5-11.8 µg/kg, Ø conc.: 7.2 μg/kg, country: Syria⁶⁸, *dried incidence: 4/24*, conc. range: 1.4-6 µg/kg, Ø conc.: 3.7 μg/kg, country: Cyprus⁷⁴, *includes figpie incidence: 94/386* **, conc. range: 0.2-1 μg/kg (48 sa), 1–5 μg/kg (37 sa), 5–10 μg/kg (7 sa), 10-20 μg/kg (1 sa), 20-30 μg/kg (1 sa), country: Switzerland¹⁷⁵, *from Turkey, **dried, randomly selected incidence: 52/62* ** ***, conc. range: 0.2-1 μg/kg (4 sa), 1–10 μg/kg (14 sa), 10–100 μg/kg (8 sa), 100–1000 μg/kg (14 sa), $1000-10,000 \mu g/kg (11 sa), >10,000 \mu g/kg$ (1 sa), country: Switzerland¹⁷⁵, *from Turkey, **fluorescent (BGY), ***selected incidence: 4/4*, conc. range: 1.1–4.4 μg/kg, Ø conc.: 3.5 µg/kg, country: Denmark¹⁹³, *imported incidence: 8/15, conc. range: 0.05-0.1 µg/kg (3 sa), 0.11-1 μg/kg (3 sa), 1.1-5 μg/kg (1 sa), 11–40 μg/kg (1 sa), Ø conc.: 1.9 μg/kg,

country: France³⁹⁷ incidence: 26/119* **, conc. range: <0.1-1 μg/kg (10 sa), 1-5 μg/kg (11 sa), 5-10 μg/kg

 $(2 \text{ sa}), 10-15 \mu\text{g/kg} (1 \text{ sa}), >15 \mu\text{g/kg} (2 \text{ sa})$ with a maximum of 35.1 µg/kg), country: Turkey⁶⁷³, *dried, **export and retail incidence: 37/52* ** ***, conc. range: 5–76,000 μg/kg, Ø conc.: 6341 μg/kg, country: Switzerland⁸¹⁸, *from Turkey, **selected fruits, fluorescent (BGY), ***dried incidence: 30?/103*, conc. range: 0.5-63 μg/kg, country: Turkey⁸⁴⁵, *includes fig paste and others see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruit products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages,

sesame products, sesame seeds, shiro, snacks,

93 Figs

sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

incidence: 4/206* **, conc. range: 23.5-71.8

 μ g/kg, Ø conc.: 50.6 μ g/kg, country:

Aflatoxin B₂

Turkey³⁰, *lower grade figs, **dried incidence: 4/24*, conc. range: 0.9-1.5 µg/kg, Ø conc.: 1.2 μg/kg, country: Cyprus⁷⁴, *includes figpie incidence: 4/4*, conc. range: 0.5–1.1 µg/kg, Ø conc.: 0.7 µg/kg, country: Denmark193, *imported incidence: 27?/103*, conc. range: 0.5-37.7 μg/kg, country: Turkey⁸⁴⁵, *includes fig paste and others see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices

(mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Aflatoxin G_1

incidence: 3/206* **, conc. range: 12.4–97.5 μg/kg, Ø conc.: 61.4 μg/kg, country: Turkey³0, *lower grade figs, **dried incidence: 4/24*, conc. range: 0.8–2.1 μg/kg, Ø conc.: 1.4 μg/kg, country: Cyprus⁷⁴, *includes figpie incidence: 49/386*, conc. range: 0.2–1 μg/kg (28 sa), 1–5 μg/kg (17 sa), 5–10 μg/kg (2 sa), 20–30 μg/kg (2 sa), country: Switzerland¹⁷⁵, *from Turkey, dried, randomly selected

from Turkey, dried, randomly selected incidence: 21/62 ** ****, conc. range: 0.2–1 μg/kg (2 sa), 1–10 μg/kg (5 sa), 10–100 μg/kg (4 sa), 100–1000 μg/kg (4 sa), 1000–10,000 μg/kg (4 sa), >10,000 μg/kg (2 sa), country: Switzerland¹⁷⁵, *from Turkey, **fluorescent (BGY), ***selected incidence: 4/4* conc. range: 0.9–1.3 μg/kg.

incidence: $4/4^*$, conc. range: $0.9-1.3 \mu g/kg$, \varnothing conc.: $1.1 \mu g/kg$, country: Denmark¹⁹³, *imported

incidence: 14/52* ** ****, conc. range: 24–180,000 µg/kg, \varnothing conc.: 15,518 µg/kg, country: Switzerland⁸¹⁸, *from Turkey, **selected fruits, fluorescent (BGY), ***dried incidence: 29?/103*, conc. range: 0.5–78.3 µg/kg, country: Turkey⁸⁴⁵, *includes fig paste and others

see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices

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(coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

Aflatoxin G_2

incidence: 1/24*, conc.: 4.2 µg/kg, country: Cyprus⁷⁴, *includes figpie incidence: 28?/103*, conc. range: 0.5–15 µg/kg, country: Turkey⁸⁴⁵, *includes fig paste and others

see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

incidence: $24/30^*$, conc. range: $28-241 \mu g/kg$, \varnothing conc.: $103.5 \mu g/kg$, country: UK^{303} , *from France, Greece, Turkey and unknown origin incidence: $16/20^*$ **, conc. range: $1-3.9 \mu g/kg$ (10 sa), $10.1-20 \mu g/kg$ (3 sa), $20.1-50 \mu g/kg$ (2 sa), $89 \mu g/kg$ (1 sa), country: UK^{739} , *port sa, **dried incidence: $1/29^*$, conc.: $1-3.9 \mu g/kg$ (1 sa), country: UK^{739} , *retail sa see also barley, beans, bread, cereals, cocoa beans, cowpeas, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut

butter), nuts (peanut products), nuts

Aflatoxins (B_1, B_2, G_1, G_2)

(pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (fig), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

AFLATOXINS (TOTAL)

incidence: $56/122^*$ **, conc. range: 1-10 µg/kg (43 sa), ≤ 96 µg/kg (13 sa), country: UK¹⁶⁴, *from Turkey, **dried see also beans, butter, maize, nut cereals, nuts (almond), nuts (Brazil), nuts (cashew), nuts ("chico-felix"), nuts (hazelnut), nuts (peanut), nuts (peanut) nuts (pistachio), nuts (walnut), paste (fig), rice, sunflower seeds

Aflatoxins

incidence: 16/110* **, conc. range: <5–337 µg/kg, country: Italy⁸⁶, *from Turkey, **dried see also beans, candy (peanut), candy (pistachio), cassava, flour (maize), grain mixtures, grains, maize, maize dough, maize products, melon seeds, millet, nuts, nuts (almond), nuts (brazil), nuts (peanut), nuts (peanut butter), nuts (peanut mix), nuts (peanut products), nuts (pecan), nuts (pistachio), nuts (walnut), nuts and seeds, paste (peanut), paste (pipian), peas, rice, sauce (leaf), snacks, sorghum, spices, spices (chilli), spices (cumin), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper), spices (tandoori), teff, tubers, wheat

Kojic Acid

incidence: 52/52* ** ****, conc. range: 8–6,900,000 μg/kg, Ø conc.: 1,336,000 μg/kg, country: Switzerland⁸¹⁸, *from Turkey, **selected fruits, fluorescent (BGY), ***dried

OCHRATOXIN A

incidence: 4/4*, conc. range: 60–120 μg/kg, country: Egypt²⁸¹, *dried

95 Fish

incidence: 1/9* **, conc.: 160 µg/kg, country: Switzerland⁵⁷⁸, *imported, **dried incidence: 27/34*, conc. range: <3.95 µg/kg, country: Germany⁵⁹², *dried incidence: 2/20*, conc. range: 0.2-0.8 µg/kg, Ø conc.: 0.5 μg/kg, country: UK⁶³⁸, *from different countries incidence: 1/39*, conc.: 0.6 μg/kg, country: Germany⁶⁴⁰, *dried incidence: 14/119* **, conc. range: <0.1-1 μg/kg (4 sa), 1-5 μg/kg (3 sa), 5-10 μg/kg (1 sa), 10–15 μg/kg (3 sa), >15 μg/kg (3 sa, with a maximum of 26.3 µg/kg), country: Turkey⁶⁷³, *dried, **export and retail incidence: 12/52* ** ***, conc. range: 5–12,300 μg/kg, Ø conc.: 1680 μg/kg, country: Switzerland818, *from Turkey, **selected fruits, fluorescent (BGY), ***dried incidence: 4/21*, conc. range: 0.4-151 µg/kg, Ø conc.: 38.9 μg/kg, country: UK⁸³⁴, *from different countries incidence: 3/103*, conc. range: 5.2-8.3 µg/kg, Ø conc.: 7 μg/kg, country: Turkey⁸⁴⁵, *includes fig paste and others incidence: 13/20*, conc. range: 0.03-1.42 μg/kg, Ø conc.: 0.33 μg/kg, country: Morocco⁸⁵⁹, *dried incidence: 18/19* **, conc. range: 0.1-5 μg/kg (13 sa), 5.1-10 µg/kg (2 sa), 10.1-20 µg/kg (2 sa), 20.1–30 μg/kg (1 sa), country: Brazil⁸⁶⁵, *from worldwide, **dried see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize),

groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Filberts

see Nuts (hazelnut)

Fish may contain the following mycotoxins:

Aflatoxin B₁

incidence: ?/8, conc. range: 534–539 μg/kg, country: Nigeria¹⁷⁷

incidence: 5/20* ** ***, conc. range: 5–10 µg/kg ?, country: Sierra Leone⁶⁷⁴, *smoked ("Bonga"), **partly moldy, ***moldy fish extract

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai,

Fish 96

bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruit products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxin G_1 incidence: $6/20^*$ ** ***, conc. range: 5–10

μg/kg ?, country: Sierra Leone⁶⁷⁴, *smoked ("Bonga"), **partly moldy, ***moldy fish extract

see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

AFLATOXIN G₂

incidence: 2/20* ** ***, conc. range: tr–5 µg/kg?, country: Sierra Leone⁶⁷⁴, *smoked ("Bonga"), **partly moldy, ***moldy fish extract

see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika),

97 Flakes (cereal)

spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

OCHRATOXIN A

incidence: 3/20* ** ***, conc. range: 5–10 µg/kg ?, country: Sierra Leone⁶⁷⁴, *smoked ("Bonga"), **partly moldy, ***moldy fish extract

see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, ligourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli

pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Fish/shrimp may contain the following mycotoxins:

Aflatoxins (B_1, B_2, G_1, G_2) incidence: 7/139*, Ø conc.: 166 µg/kg, max. conc.: 772 µg/kg, country: Thailand¹⁶³, *dried see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (fig), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

Flakes (cereal) may contain the following mycotoxins:

OCHRATOXIN A

incidence: 13/54, conc. range: 0.1–0.19 μ g/kg (3 sa), 0.2–0.49 μ g/kg (3 sa), 0.5–1.49 μ g/kg (4 sa), 1.5–9.99 μ g/kg (3 sa), country: Germany⁶²³

incidence: 1/5, conc.: 1 µg/kg, country: Germany⁶⁴⁰ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), Flakes (cereal) 98

bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup,

tomatoes, turkey, vegetables, vinegar, wheat, wine

Flakes (corn) may contain the following mycotoxins:

AFLATOXIN B₁ incidence: 15*/57, conc. range: 60-163 µg/kg, country: Nepal²³⁹, *>30 μg/kg see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruit products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices

99 Flakes (corn)

(chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Deoxynivalenol

incidence: 1/3, conc.: 10–30 μg/kg, country: Germany⁴³²

incidence: 4/6, conc. range: 33–142 µg/kg, Ø conc.: 70 µg/kg, country: Germany⁵²⁰ see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

Fumonisin B₁

incidence: 1/4, conc.: 660 μg/kg, country: Brazil²¹⁵

incidence: 2/11*, conc. range: 186–453 μg/kg, Ø conc.: 319.5 μg/kg, country: Germany²⁷⁴, *from different European countries incidence: 1/2, conc.: 10 μg/kg, country: Italy³⁶²

incidence: 6/15, conc. range: 21–165 µg/kg, \varnothing conc.: 35.9 µg/kg, country: Korea³⁷⁵ incidence: 6/10, conc. range: 5–1030 µg/kg, country: Denmark³⁸⁵

incidence: 1/3, conc.: 218 μg/kg, country: Uruguay³⁹⁹

incidence: 1/12, conc.: 55 μg/kg, country: Switzerland⁴⁰⁰ incidence: 2/12, conc. range: \leq 100 µg/kg, \varnothing conc.: 60 µg/kg, country: Spain⁴⁰⁴ incidence: 7/8*, conc. range: 23–1092 µg/kg, \varnothing conc.: 266 µg/kg, country: Italy⁴⁰⁷, *from Europe

incidence: 2/6, conc. range: 10 µg/kg, \varnothing conc.: 10 µg/kg, country: USA⁴¹⁰ incidence: 4/17, conc. range: 140–1281 µg/kg, \varnothing conc.: 497 µg/kg, country: Taiwan⁴¹⁸ incidence: 3/39, conc. range: 16.1–18.5 µg/kg, country: Spain⁴²¹

incidence: 10/11, conc. range: 13–209 μ g/kg, \varnothing conc.: 51.5 μ g/kg, country: Canada⁶¹⁴ incidence: 22/25*, conc. range: 8–198 μ g/kg, \varnothing conc.: 835 μ g/kg, country: Canada⁶¹⁸, *and from USA

incidence: $4/6^*$, conc. range: 14– $35~\mu g/kg$, \varnothing conc.: $25~\mu g/kg$, country: Sweden⁶⁸², *imported?

incidence: 16/17, conc. range: 2–38 µg/kg, Ø conc.: 11 µg/kg, country: Argentina⁸¹⁷ see also arepas, asparagus, barley, batter, beans, beer, bran (maize), bread, cake (rice), cereals, cereals (breakfast), chamomile, chips (maize), chips (tortilla), flour (maize), food, food (baby), foodstuff, grits (maize), Incaparina, leaves, maize, maize fiber, maize muffin, maize products, maize silk, maize starch, masa, meal (maize), meal (sorghum), milk, muffin mix, nuts (peanut), pancake, popcorn, rapoko, rice, snacks, sorghum, soybeans, syrup (sorghum), tea, tortillas, wheat

Fumonisin B₂

incidence: 1/4, conc.: 30 μg/kg, country: Brazil²¹⁵

incidence: 2/10, conc. range: 4–243 µg/kg, \varnothing conc.: 123.5 µg/kg, country: Denmark³⁸⁵ incidence: 7/8*, conc. range: 8–235 µg/kg, \varnothing conc.: 61.4 µg/kg, country: Italy⁴⁰⁷, *from Europe

incidence: 3/17, conc. range: 120–466 µg/kg, \varnothing conc.: 165.6 µg/kg, country: Taiwan⁴¹⁸ incidence: 1/11, conc.: 23 µg/kg, country: Canada⁶¹⁴

incidence: 12/25*, conc. range: 11–26 μg/kg, Ø conc.: 18.4 μg/kg, country: Canada⁶¹⁸, *and from USA Flakes (corn) 100

see also arepas, asparagus, barley, batter, beer, bran (maize), cereals, cereals (breakfast), chips (maize), chips (tortilla), flour (maize), food (baby), foodstuff, grits (maize), Incaparina, maize, maize fiber, maize starch, masa, meal (maize), muffin mix, pancake, popcorn, rice, snacks, tortillas, wheat

FUMONISINS

incidence: 4?/6, conc. range: ≤400 μg/kg, country: USA³⁵⁷

see also beer, bread, cereal (infant), chips (tortilla), flour (maize), grits (maize), maize, maize pops cereal, maize products, maize starch, maize (infant cream corn), meal (maize), muffin mix, pasta, popcorn, porridge, products, sorghum, tortillas

Moniliformin

incidence: 18/46*, conc. range: ≤76 μg/kg, country: UK⁷⁴³, *different kinds see also barley, corn on the cob, flour (maize), foodstuff, grits (maize), maize, maize-based thickeners, meal (maize), oats, popcorn, rye, snacks, triticale, wheat

OCHRATOXIN A

incidence: 12/38, conc. range: ≤0.1 μg/kg, country: Germany⁵⁹²

incidence: 2/13, conc. range: 0.1–0.19 µg/kg,

country: Germany⁶²³

incidence: 1/34, conc.: 0.4 μg/kg, country: Germany⁶⁴⁰

see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits

(durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

ZEARALENONE

incidence: 2/6, conc. range: 2–3 μg/kg, Ø conc.: 3 μg/kg, country: Germany⁵²⁰ see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat,

101 Flakes (oat)

meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Flakes (oat) may contain the following mycotoxins:

Deoxynivalenol

incidence: 1/7, conc.: 192 μg/kg, country:

Germany²⁴⁴

incidence: 1/1, conc.: 10–30 μg/kg, country:

Germanv⁴³²

incidence: 6/9, conc. range: 11–148 µg/kg, Ø conc.: 48 µg/kg, country: Germany⁵²⁰ see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

3-Acetyldeoxynivalenol

incidence: 1/9, conc.: 14 μg/kg, country: Germany⁵²⁰

see also barley, bread, cereals, cereals (breakfast), flour (maize), flour (wheat), food, food (baby), grits (maize), maize, oat products, oats, rice, rye, snacks, wheat

HT-2 Toxin

incidence: 7/9, conc. range: $5-19 \mu g/kg$, \varnothing conc.: $8 \mu g/kg$, country: Germany⁵²⁰ see also barley, bran (oat), bran (wheat), bread, cereal (baby), cereals, cereals (breakfast), flour (maize), flour (wheat), food, food (baby), germ (wheat), grits (maize), groats (oat), maize, noodles, nuts (hazelnut), oat products, oats, products, pumpkin seeds, rye, spices (chilli powder), spices (curry), sunflower seeds, wheat

OCHRATOXIN A

incidence: 4/92, conc. range: 1.2–2.0 μg/kg, country: Germany⁶⁴⁰

incidence: 26/66, conc. range: $\leq 0.251 \,\mu g/kg$, Ø conc.: 0.069 μg/kg, country: Germany⁶⁹⁰ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts

Flakes (oat)

(pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

T-2 Toxin

incidence: 2/9, conc. range: 6–12 μg/kg, Ø conc.: 8 μg/kg, country: Germany⁵²⁰ see also barley, beans, beer, bran (oat), bran (wheat), bread, cereals, cereals (breakfast), flour, flour (maize), flour (wheat), food, grits (maize), maize, nuts (hazelnut), nuts (peanut), oat products, oats, rice, rye, sorghum, spices (curry), spices (ginger), spices (tandoori), sunflower seeds, wheat

Flakes (wheat) may contain the following mycotoxins:

Deoxynivalenol

incidence: 16/20, conc. range: 101–1000 μg/kg (14 sa), 1001–5000 μg/kg (2 sa), country: Portugal³¹⁵ see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt

(barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

OCHRATOXIN A

incidence: 2/19, conc. range: 1-5 µg/kg (2 sa), country: Czechoslovakia⁵⁹⁵ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liquerice, liquerice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls,

103 Flour

rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Flour may contain the following mycotoxins:

Aflatoxin B_1

incidence: 1*/?, conc.: tr, country: Kenya⁷⁴⁶, *Jembe backing

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour (gram), flour (maize), flour (wheat), food, food (infant), fruit products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut),

nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂ incidence: 1*/?, conc.: tr, country: Kenya⁷⁴⁶, *Jembe backing see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika),

Flour 104

spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

DEOXYNIVALENOL

incidence: 1/40, conc.: 188 μg/kg, country: Egypt⁴²⁷

Egypt

incidence: 105/134*, conc. range: 15–624

μg/kg, Ø conc.: 90 μg/kg, country:

Germany⁵¹⁷, *white

incidence: 51/77*, conc. range: 15–1670

 μ g/kg, \varnothing conc.: 130 μ g/kg, country:

Germany⁵¹⁷, *whole grain

incidence: 44/50, conc. range: ≤500 µg/kg,

country: USA⁵⁶¹

incidence: $2/2^*$ **, conc. range: 23–720 µg/kg, \varnothing conc.: 371 µg/kg, country: Papua, New Guinea⁵⁷⁴, *from Australia, **wholemeal self-raising

incidence: 2/2* **, conc. range: 91–1460 μg/kg, Ø conc.: 775 μg/kg, country: Papua, New Guinea⁵⁷⁴, *from Australia, **wholemeal plain

incidence: 36/40, conc. range: 10–100 µg/kg (33 sa), >100–250 µg/kg (2 sa), 531 µg/kg (1 sa), country: UK 836

see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

Fumonisins (B_1 , B_2 , B_3) incidence: 6/8*, conc. range: 150–2400 µg/kg, \varnothing conc.: 800 µg/kg, country: USA⁵⁵², *from Nepal see also bran (maize), cereals (breakfast),

flour (maize), germ (maize), grains, grits

(maize), maize, maize-based thickeners, popcorn, snacks, tortillas

Nivalenol

incidence: 1/2* **, conc.: 13 µg/kg, country: Papua, New Guinea⁵⁷⁴, *from Australia, **wholemeal self-raising incidence: 1/2* **, conc.: 1375 μg/kg, country: Papua, New Guinea⁵⁷⁴, *from Australia, **wholemeal plain incidence: 14/40, conc. range: 11-21 µg/kg, country: UK836 see also barley, beer, biscuits, bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), flour (barley), flour (maize), flour (rye), flour (wheat), food, germ (wheat), grits (maize), grits (wheat), Job's-tears, maize, malt (barley), meal (millet), millet, noodles, oat products, oats, rice, rye, snacks, sorghum, soybeans, spices (chilli sauce), spices (curry), spices (curry paste), spices (curry powder), spices (garlic), spices (ginger), spices (tandoori), wheat

OCHRATOXIN A

incidence: 2/7*, conc. range: 490-2900 μg/kg, Ø conc.: 1695 μg/kg, country: UK⁶⁴⁹, *moldy incidence: 12/14*, conc. range: 0.2-0.5 µg/kg (7 sa), 0.6-1 μg/kg (3 sa), 1.1-4 μg/kg (1 sa), 5.3 µg/kg (1 sa), country: UK⁷⁴⁰, *for baking see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice

105 Flour (barley)

(carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

8-KETOTRICHOTHECENE incidence: 1/8*, conc.: 3000 μg/kg, country: USA⁵⁵², *from Nepal see also grains

incidence: 1/40, conc.: 2.2 µg/kg, country:

T-2 Toxin

Egypt⁴²⁷ see also barley, beans, beer, bran (oat), bran (wheat), bread, cereals, cereals (breakfast), flakes (oat), flour (maize), flour (wheat), food, grits (maize), maize, nuts (hazelnut), nuts (peanut), oat products, oats, rice, rye, sorghum, spices (curry), spices (ginger), spices (tandoori), sunflower seeds, wheat

ZEARALENONE

incidence: 4/40, \varnothing conc.: 95 μ g/kg, country: Egypt⁴²⁷

incidence: $2/2^*$ **, conc. range: 1450–2150 µg/kg, \varnothing conc.: 1800 µg/kg, country: Papua, New Guinea⁵⁷⁴, *from Australia, **wholemeal self-raising

incidence: $2/2^*$ **, conc. range: 1400-2570 µg/kg, \varnothing conc.: 1985 µg/kg, country: Papua, New Guinea⁵⁷⁴, *from Australia, **wholemeal plain

see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Flour (barley) may contain the following mycotoxins:

Deoxynivalenol

incidence: 3/6, conc. range: 8–39 μg/kg, Ø conc.: 23 μg/kg, country: Japan⁵³¹ incidence: 6/6*, conc. range: 27–85 μg/kg, Ø conc.: 53.8 μg/kg, country: Japan⁵⁷², *parched see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley),

Flour (barley)

grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

NIVALENOL

incidence: 6/6, conc. range: 13-41 Ø conc.: 28 μg/kg, country: Japan⁵³¹ incidence: 6/6*, conc. range: 37-190 μg/kg, Ø conc.: 97.7 μg/kg, country: Japan⁵⁷², *parched see also barley, beer, biscuits, bran (wheat), bread, cake, cereal (baby), cereals,cereals (breakfast), flour, flour (maize), flour (rye), flour (wheat), food, germ (wheat), grits (maize), grits (wheat), Job's-tears, maize, malt (barley), meal (millet), millet, noodles, oat products, oats, rice, rye, snacks, sorghum, soybeans, spices (chilli sauce), spices (curry), spices (curry paste), spices (curry powder), spices (garlic), spices (ginger), spices (tandoori), wheat

Zearalenone

incidence: 6/6, conc. range: 1–4 µg/kg, Ø conc.: 2 µg/kg, country: Japan⁵³¹ see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Flour (cassava) may contain the following mycotoxins:

OCHRATOXIN A

incidence: 2/33*, conc. range: 32-65 µg/kg, Ø conc.: 48.5 μg/kg, country: Brazil⁸¹⁶, *raw see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liquerice, liquerice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice

107 Flour (gram)

powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Flour (gram) may contain the following mycotoxins:

Aflatoxin B₁

incidence: 36/127, conc. range: <20 µg/kg (4 sa), 21-80 µg/kg (3 sa), 81-120 µg/kg (1 sa), 121–250 μg/kg (18 sa), 251–500 μg/kg (5 sa), 501–750 μg/kg (5 sa), country: India³⁰¹ see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (maize), flour (wheat), food, food (infant), fruit products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts

(grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂

incidence: 9/127, conc. range: 21-80 µg/kg (2 sa), 81–120 μg/kg (2 sa), 121–250 μg/kg (5 sa), country: India³⁰¹ see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices

Flour (gram)

(ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Flour (maize) may contain the following mycotoxins:

Aflatoxin B_1 incidence: 1/2*, conc.: 15 μg/kg, country: Spain¹⁵⁷, *whole incidence: 72/124, conc. range: <20 µg/kg (5 sa), 21-80 µg/kg (9 sa), 81-120 µg/kg (6 sa), 121-250 μg/kg (12 sa), 251-500 μg/kg (21 sa), 501–750 μg/kg (9 sa), 751–1000 μg/kg (2 sa), 1000-2000 μg/kg (7 sa), >2000 μg/kg (1 sa), country: India³⁰¹ incidence: 10/?, conc. range: 5-210 µg/kg, Ø conc.: 47 µg/kg, country: Kenya⁷⁴⁶ see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (wheat), food, food (infant), fruit products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut),

nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂ incidence: 1/2*, conc.: 4 µg/kg, country: Spain¹⁵⁷, *whole incidence: 35/124, conc. range: 21-80 µg/kg (4 sa), 81-120 μg/kg (3 sa), 121-250 μg/kg (18 sa), 251-500 µg/kg (8 sa), 501-750 µg/kg (2 sa), country: India³⁰¹ incidence: 9/?, conc. range: tr-80 μg/kg, country: Kenya746 see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans,

spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Aflatoxin G₁

incidence: 8/124, conc. range: 121–250 μg/kg (1 sa), 251–500 μg/kg (1 sa), 501–750 μg/kg (4 sa), 1000–2000 μg/kg (2 sa), country: India³⁰¹

incidence: 2/?, conc. range: 10 μg/kg, Ø conc.: 10 µg/kg, country: Kenya⁷⁴⁶ see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

AFLATOXIN G₂

incidence: 2/?, conc. range: 5 μg/kg, Ø conc.: 5 μg/kg, country: Kenya⁷⁴⁶ see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts, nuts

(brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

Aflatoxin

incidence: 20/30*, conc. range: 3-≤14 µg/kg, country: India¹⁹⁴, *uncooked see also barley, beer, bran (rice), injera, jars, kocho, maize, maize roti, malt (barley), malt (maize), nuts (peanut), nuts (peanut butter), nuts (pistachio), oil (peanut), paste (pepper, red), rice, spices (pepper)

AFLATOXINS (B₁, B₂) incidence: ?/172*, conc. range: 0.4–20 μg/kg, country: Kenya²⁷³, *ncac see also maize, meal (protein supplement), millet, rice, spices

Aflatoxins (B_1, B_2, G_1, G_2) incidence: ?/4, conc. range: 0.2-0.7 µg/kg, country: UK⁷³² see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (fig), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

Aflatoxins

incidence: 1/2*, conc.: 129 μg/kg, country: USA¹⁹⁷

see also beans, candy (peanut), candy (pistachio), cassava, figs, grain mixtures, grains, maize, maize dough, maize products, melon seeds, millet, nuts, nuts (almond), nuts (brazil), nuts (peanut), nuts (peanut butter), nuts (peanut mix), nuts (peanut products), nuts (pecan), nuts (pistachio), nuts (walnut), nuts and seeds, paste (peanut), paste (pipian), peas, rice, sauce (leaf), snacks, sorghum, spices, spices (chilli), spices (cumin), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper), spices (tandoori), teff, tubers, wheat

Deoxynivalenol

incidence: 13/15, conc. range: 20–452 µg/kg, \varnothing conc.: 160 µg/kg, country: Germany⁵¹⁶ incidence: 6/8, conc. range: 20–98 µg/kg, \varnothing conc.: 51 µg/kg, country: Germany⁵²⁰ incidence: ?/4, conc. range: 17–67 µg/kg, country: UK⁷³²

incidence: 4/7, conc. range: 140-2670 µg/kg, Ø conc.: 905 μg/kg, country: Turkey⁸⁶³ see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

3-Acetyldeoxynivalenol

incidence: 2/15, conc. range: 14–25 μg/kg, Ø conc.: 20 μg/kg, country: Germany⁵¹⁶ see also barley, bread, cereals, cereals (breakfast), flakes (oat), flour (wheat), food, food (baby), grits (maize), maize, oat products, oats, rice, rye, snacks, wheat

15-Acetydeoxynivalenol

incidence: 10/15, conc. range: 11–73 µg/kg, \varnothing conc.: 40 µg/kg, country: Germany⁵¹⁶ incidence: 3/8, conc. range: 11–30 µg/kg, \varnothing conc.: 19 µg/kg, country: Germany⁵²⁰ see also barley, bran (oat), bran (wheat), cereals (breakfast), flour (wheat), food, grits (maize), maize, noodles, oat products, oats, snacks, wheat

Fumonisin B₁

incidence: 9/11, conc. range: nd–1460 µg/kg, \varnothing conc.: 740 µg/kg, country: Brazil²¹⁵ incidence: 1/2*, conc.: 440 µg/kg, country: Brazil²¹⁵, *baby cereal

incidence: 4/6*, conc. range: nd–1790 μg/kg, Ø conc.: 1260 μg/kg, country: Brazil²¹⁵, *precooked

incidence: 13/25*, conc. range: 50.38–349.28 μ g/kg, \varnothing conc.: 157.61 μ g/kg, country: USA²³⁵, *products

incidence: $3/5^*$, conc. range: 71–9818 µg/kg, \varnothing conc.: 5769.3 µg/kg, country: Germany²⁷⁴, *partly from Italy

incidence: 4/4, conc. range: 24–693 μ g/kg, \varnothing conc.: 193.5 μ g/kg, country: Germany²⁷⁴ incidence: 28/29*, conc. range: 38–4987 μ g/kg, \varnothing conc.: 623.7 μ g/kg, country: Argentina³⁶⁶, *includes two baby cereals incidence: 5/7, conc. range: 40–90 μ g/kg, \varnothing conc.: 58 μ g/kg, country: The Netherlands³⁸⁰

incidence: 6/8, conc. range: 17–86 μg/kg, country: Denmark³⁸⁵

incidence: 1/2, conc.: 608 μg/kg, country: Taiwan⁴¹⁸

incidence: 8/24, conc. range: 38.7–937.5 µg/kg, country: Spain⁴²¹

see also arepas, asparagus, barley, batter, beans, beer, bran (maize), bread, cake (rice), cereals, cereals (breakfast), chamomile, chips (maize), chips (tortilla), flakes (corn), food, food (baby), foodstuff, grits (maize), Incaparina, leaves, maize, maize fiber, maize muffin, maize products, maize silk, maize

starch, masa, meal (maize), meal (sorghum),

milk, muffin mix, nuts (peanut), pancake, popcorn, rapoko, rice, snacks, sorghum, soybeans, syrup (sorghum), tea, tortillas, wheat

Fumonisin B₂

incidence: 9/11, conc. range: nd-510 µg/kg, Ø conc.: 270 μg/kg, country: Brazil²¹⁵ incidence: 1/2*, conc.: 50 μg/kg, country: Brazil²¹⁵, *baby cereal incidence: 4/6*, conc. range: nd-420 µg/kg, Ø conc.: 310 μg/kg, country: Brazil²¹⁵, *precooked incidence: 1/25*, conc.: 123.85 μg/kg, country: USA²³⁵, *products incidence: 4/4, conc. range: 10–2212 µg/kg, Ø conc.: 561.8 µg/kg, country: Germany²⁷⁴ incidence: 27/29*, conc. range: 15-1818 μg/kg, Ø conc.: 222.1 μg/kg, country: Argentina³⁶⁶, *includes two baby cereals incidence: 6/8, conc. range: 7-24 µg/kg, country: Denmark³⁸⁵ see also arepas, asparagus, barley, batter, beer, bran (maize), cereals, cereals (breakfast), chips (maize), chips (tortilla), flakes (corn), food (baby), foodstuff, grits (maize), Incaparina, maize, maize fiber, maize starch, masa, meal (maize), muffin mix, pancake, popcorn, rice, snacks, tortillas, wheat

Fumonisin B₃

incidence: $2/25^*$, conc. range: 41.78-42.81 µg/kg, \varnothing conc.: 42.3 µg/kg, country: USA²³⁵, *products

see also barley, cereal products, cereals, food (baby), Incaparina, maize, meal (maize), pancake, popcorn, rice, snacks

Fumonisins (B_1, B_2)

incidence: 1/4, conc.: 218 μg/kg, country: UK⁷³²

see also beer, food (infant), maize, meal (maize), noodles, rice, spice powder, spices (chilli pickle), spices (curry), spices (curry paste), spices (curry powder), spices (tandoori)

Fumonisins (B_1, B_2, B_3)

incidence: 12/12, conc. range: 200–1100 μ g/kg, \varnothing conc.: 375 μ g/kg, country: USA³⁷⁰

see also bran (maize), cereals (breakfast), flour, germ (maize), grains, grits (maize), maize, maize-based thickeners, popcorn, snacks, tortillas

FUMONISINS

incidence: 22/22*, conc. range: 14–487 μg/kg, Ø conc.: 187 μg/kg, country: Czech Republic⁶⁷⁰, *gluten-free see also beer, bread, cereal (infant), chips (tortilla), flakes (corn), grits (maize), maize, maize pops cereal, maize products, maize starch, maize (infant cream corn), meal (maize), muffin mix, pasta, popcorn, porridge, products, sorghum, tortillas

Fusarenon X

incidence: 2/15, conc. range: 29 µg/kg, Ø conc.: 29 µg/kg, country: Germany⁵¹⁶ see also cereals (breakfast), food, maize, oat products, spices (curry), spices (garlic)

HT-2 Toxin

incidence: 4/15, conc. range: 5 μg/kg, Ø conc.: 5 μg/kg, country: Germany⁵¹⁶ see also barley, bran (oat), bran (wheat), bread, cereal (baby), cereals, cereals (breakfast), flakes (oat), flour (wheat), food, food (baby), germ (wheat), grits (maize), groats (oat), maize, noodles, nuts (hazelnut), oat products, oats, products, pumpkin seeds, rye, spices (chilli powder), spices (curry), sunflower seeds, wheat

Moniliformin

incidence: $3/6^*$, conc. range: $100-250 \,\mu g/kg$, \varnothing conc.: $160 \,\mu g/kg$, country: UK^{524} , *and from USA and unknown origin incidence: 9/9, conc. range: $33-285 \,\mu g/kg$, \varnothing conc.: $141 \,\mu g/kg$, country: UK^{743} see also barley, corn on the cob, flakes (corn), foodstuff, grits (maize), maize, maize-based thickeners, meal (maize), oats, popcorn, rye, snacks, triticale, wheat

Nivalenol

incidence: 4/15, conc. range: 22–58 µg/kg, \varnothing conc.: 39 µg/kg, country: Germany⁵¹⁶ see also barley, beer, biscuits, bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), flour, flour (barley), flour (rye),

flour (wheat), food, germ (wheat), grits (maize), grits (wheat), Job's-tears, maize, malt (barley), meal (millet), millet, noodles, oat products, oats, rice, rye, snacks, sorghum, soybeans, spices (chilli sauce), spices (curry), spices (curry paste), spices (curry powder), spices (garlic), spices (ginger), spices (tandoori), wheat

OCHRATOXIN A

incidence: 1/17, conc.: 64 μg/kg, country: Brazil²³⁰

incidence: ?/172*, conc. range: 50–1500 μg/kg, country: Kenya²⁷³, *ncac incidence: 1/4, conc.: 0.6 μg/kg, country: UK⁷³²

see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

T-2 Toxin

incidence: 2/12, conc. range: 1600–4080 μ g/kg, \varnothing conc.: 2840 μ g/kg, country: Turkey²¹¹

incidence: 4/15, conc. range: 6–11 μ g/kg, \varnothing conc.: 7 μ g/kg, country: Germany⁵¹⁶ see also barley, beans, beer, bran (oat), bran (wheat), bread, cereals, cereals (breakfast), flakes (oat), flour, flour (wheat), food, grits (maize), maize, nuts (hazelnut), nuts (peanut), oat products, oats, rice, rye, sorghum, spices (curry), spices (ginger), spices (tandoori), sunflower seeds, wheat

ZEARALENONE

incidence: ?/172*, conc. range: 2500–5000 μg/kg, country: Kenya²⁷³, *ncac incidence: 13/15, conc. range: 2–136 μg/kg, Ø conc.: 40 μg/kg, country: Germany⁵¹⁶ incidence: 6/8, conc. range: 2–40 μg/kg, Ø conc.: 12 μg/kg, country: Germany⁵²⁰ incidence: ?/4, conc. range: 6.5–40.8 μg/kg, country: UK⁷³² incidence: 4/8, conc. range: 8–17.3 μg/kg, country: UK⁸³⁶ see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese,

113 Flour (rye)

crackers, flakes (corn), flour, flour (barley), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Flour (rye) may contain the following mycotoxins:

Deoxynivalenol

incidence: 1/1* **, conc.: 174 μg/kg, country: Japan⁵³⁸, *from Germany, **ncac see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

ERGOCORNINE

incidence: 2?/3, conc. range: 6.4–6.9 μ g/kg, \varnothing conc.: 6.65 μ g/kg, country: Canada⁸⁰⁶ see also bread, flour (wheat), pancake, triticale

ERGOCRISTINE

incidence: 3/3, conc. range: 19–23 µg/kg, \varnothing conc.: 20.3 µg/kg, country: Canada⁸⁰⁶ see also bread, flour (wheat), pancake, triticale

ERGOMETRINE

incidence: 3/3, conc. range: 2.7–6.1 μ g/kg, \varnothing conc.: 4.7 μ g/kg, country: Canada⁸⁰⁶ see also bread, flour (wheat), pancake, triticale

Ergosine

incidence: 2?/3, conc. range: 14 µg/kg, \varnothing conc.: 14 µg/kg, country: Canada⁸⁰⁶ see also bread, flour (wheat), pancake, triticale

ERGOTAMINE

incidence: 3/3, conc. range: 8.6–51 µg/kg, \varnothing conc.: 34.2 µg/kg, country: Canada⁸⁰⁶ see also bread, flour (wheat), pancake, triticale

α-Ergokryptine

incidence: 2/3, conc. range: 13–58 µg/kg, \varnothing conc.: 39 µg/kg, country: Canada⁸⁰⁶ see also bread, flour (wheat), pancake, triticale

Nivalenol

incidence: 1/1* **, conc.: 3 μg/kg, country: Japan⁵³⁸, *from Germany, **ncac see also barley, beer, biscuits, bran (wheat), bread, cake, cereal (baby), cereals,cereals (breakfast), flour, flour (barley), flour (maize), flour (wheat), food, germ (wheat), grits (maize), grits (wheat), Job's-tears, maize, malt (barley), meal (millet), millet, noodles, oat products, oats, rice, rye, snacks, sorghum, soybeans, spices (chilli sauce), spices (curry), spices (curry paste), spices (curry powder), spices (garlic), spices (ginger), spices (tandoori), wheat

OCHRATOXIN A

incidence: 137/165*, conc. range: \leq 9.8 µg/kg, \varnothing conc.: 0.8 µg/kg**, country: Denmark²⁶⁵, *cg, **arithmetic mean incidence: 140/155*, conc. range: \leq 68 µg/kg, \varnothing conc.: 1.8 µg/kg**, country: Denmark²⁶⁵, *og, **arithmetic mean

Flour (rye) 114

incidence: $20/26^*$, conc. range: $\leq 6.4 \mu g/kg$, \varnothing conc.: 0.422 µg/kg, country: Germany⁶⁹⁰, *<T997

incidence: $68/71^*$, conc. range: $\leq 2.145 \,\mu g/kg$, Ø conc.: 0.316 μg/kg, country: Germany⁶⁹⁰, *>T997

see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder),

spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Flour (wheat) may contain the following mycotoxins:

AFLATOXIN B₁

incidence: 1/83, conc.: 25.6 µg/kg, country:

Malaysia³

incidence: 21/238, Ø conc.: 4.13 μg/kg,

country: Croatia66

incidence: 27*/106, conc. range: 109-693 μg/kg, country: Nepal²³⁹, *>30 μg/kg incidence: 54/165, conc. range: 21-80 µg/kg (6 sa), 81-120 μg/kg (2 sa), 121-250 μg/kg (23 sa), 251–500 μg/kg (12 sa), 501–750 μg/kg (7 sa), 751–1000 μg/kg (3 sa), 1000–2000 μg/kg (1 sa), country: India³⁰¹ see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), food, food (infant), fruit products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk

products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂

incidence: 4/83, conc. range: 11.3–253 µg/kg, \varnothing conc.: 75.2 µg/kg, country: Malaysia³ incidence: 28/165, conc. range: <20 µg/kg (4 sa), 21–80 µg/kg (1 sa), 81–120 µg/kg (12 sa), 121–250 µg/kg (8 sa), 251–500 µg/kg (3 sa), country: India³01

see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut butter), nuts (peanut products),

nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Aflatoxin G₁

incidence: 3/83, conc. range: 25–289 µg/kg, Ø conc.: 135 µg/kg, country: Malaysia3 incidence: 5/165, conc. range: 251-500 µg/kg (2 sa), 501–750 μg/kg (3 sa), country: India³⁰¹ see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

Aflatoxin G_2

incidence: 11/83, conc. range: 16.3–436 μg/kg, Ø conc.: 153 μg/kg, country: Malaysia³ see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (maize), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize

dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

Deoxynivalenol

incidence: 14/40, conc. range: 50– $175 \mu g/kg$, \varnothing conc.: 94 $\mu g/kg$, country: Argentina³²⁸ incidence: 13/17, conc. range: 1500– $5800 \mu g/kg$, \varnothing conc.: 4000 $\mu g/kg$, country: USA⁴²⁴, */muffin mix

incidence: 9/12*, conc. range: 430–4850 μg/kg, country: India⁴³⁰, *refined incidence: 2/5, conc. range: 346–8380 μg/kg, country: India⁴³⁰

incidence: 2/2, conc.: 10–40 μg/kg, country: Germany⁴³²

incidence: 61/61, conc. range: 250–9000 μg/kg, Ø conc.: 1309 μg/kg, country: Argentina⁵⁰⁵

incidence: 36/36*, conc. range: 65–1379 μg/kg, Ø conc.: 394 μg/kg, country: Germany⁵¹⁹, *co

incidence: 23/24*, conc. range: 15–756 µg/kg, \varnothing conc.: 131 µg/kg, country: Germany⁵¹⁹, *oo incidence: 26/36*, conc. range: 2–239 µg/kg, \varnothing conc.: 38 µg/kg, country: Japan⁵³¹, *and unknown origin

incidence: $4/6^*$, conc. range: 5–50 µg/kg, \varnothing conc.: 22.3 µg/kg, country: Japan⁵³², *and unknown origin

incidence: 5/31, con. range: 400–800 μ g/kg, \varnothing conc.: 560 μ g/kg, country: Argentina⁵⁴² incidence: 3/3*, con. range: 11–690 μ g/kg, \varnothing conc.: 251 μ g/kg, country: Japan⁵⁴⁹, *from China

incidence: 1/1* **, con.: 1720 µg/kg, country: Papua, New Guinea⁵⁷⁴, *from Australia, **fine-ground biscuit

**raw incidence: 60/61, conc. range: 20–49 μg/kg (22 sa), 50–99 μg/kg (30 sa), 100–249 μg/kg (8 sa, with a maximum of 234 μg/kg), country: UK⁷⁷⁴ incidence: 2/19* **, conc. range: 350–8380 μg/kg, Ø conc.: 4365 μg/kg, country: India⁷⁸⁸, *whole, **partly rain-affected incidence: 11/37* **, conc. range: 440–4850 μg/kg, country: India⁷⁸⁸, *refined, **partly rain-affected see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figurages, flakes (corp.) flakes (cat), flakes

incidence: 1/1* **, con.: 2270 µg/kg, country:

Papua, New Guinea⁵⁷⁴, *from Australia,

(breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

ACETYLDEOXYNIVALENOL

incidence: 4/22*, conc. range: 600–2400 µg/kg, country: India⁴³⁰, *refined incidence: 4/37* **, conc. range: 640–2490 µg/kg, country: India⁷⁸⁸, *refined, **partly rain-affected see also wheat

3-ACETYLDEOXYNIVALENOL incidence: 1/19*, conc.: 11 µg/kg, country: Germany⁵¹⁹, *whole-grain see also barley, bread, cereals, cereals (breakfast), flakes (oat), flour (maize), food, food (baby), grits (maize), maize, oat

15-ACETYLDEOXYNIVALENOL incidence: 2/19*, conc. range: 15 μg/kg, Ø conc.: 15 μg/kg, country: Germany⁵¹⁹, *whole-grain

products, oats, rice, rye, snacks, wheat

see also barley, bran (oat), bran (wheat), cereals (breakfast), flour (maize), food, grits (maize), maize, noodles, oat products, oats, snacks, wheat

Ergocornine

incidence: 1/1*, conc.: 0.6 μg/kg, country: Canada⁸⁰⁶, *enriched

incidence: $3/3^*$, conc. range: $3.5-7.3 \mu g/kg$, \varnothing conc.: $5.7 \mu g/kg$, country: Canada⁸⁰⁶, *whole see also bread, flour (rye), pancake, triticale

ERGOCRISTINE

incidence: 1/1*, conc.: 3.1 μg/kg, country: Canada⁸⁰⁶, *enriched

incidence: $3/3^*$, conc. range: $19-23 \mu g/kg$, \varnothing conc.: $20.3 \mu g/kg$, country: Canada⁸⁰⁶, *whole see also bread, flour (rye), pancake, triticale

ERGOMETRINE

incidence: 1/1*, conc.: 0.4 μg/kg, country: Canada⁸⁰⁶, *enriched

incidence: $3/3^*$, conc. range: $2-3.5 \mu g/kg$, \varnothing conc.: $2.56 \mu g/kg$, country: Canada⁸⁰⁶, *whole see also bread, flour (rye), pancake, triticale

Ergosine

incidence: $1/1^*$, conc.: 0.5 µg/kg, country: Canada 806 , *enriched

incidence: $3/3^*$, conc. range: 1.9–6.7 µg/kg, \varnothing conc.: 3.63 µg/kg, country: Canada⁸⁰⁶, *whole see also bread, flour (rye), pancake, triticale

ERGOTAMINE

incidence: 1/1*, conc.: 1.5 μg/kg, country: Canada⁸⁰⁶, *enriched

incidence: $3/3^*$, conc. range: $7.4-9.1 \mu g/kg$, \varnothing conc.: $8.36 \mu g/kg$, country: Canada⁸⁰⁶, *whole see also bread, flour (rye), pancake, triticale

α-Ergokryptine

incidence: 1/1*, conc.: 0.8 μg/kg, country: Canada⁸⁰⁶, *enriched

incidence: $3/3^*$, conc. range: $2.8-8.3 \mu g/kg$, \varnothing conc.: $5.76 \mu g/kg$, country: Canada⁸⁰⁶, *whole see also bread, flour (rye), pancake, triticale

HT-2 Toxin

incidence: 1/13*, conc.: 12 μg/kg, country: Germany⁵¹⁹, *white

incidence: 3/19*, conc. range: 12 μg/kg, Ø conc.: 12 μg/kg, country: Germany⁵¹⁹, *whole-grain

see also barley, bran (oat), bran (wheat), bread, cereal (baby), cereals, cereals (breakfast), flakes (oat), flour (maize), food, food (baby), germ (wheat), grits (maize), groats (oat), maize, noodles, nuts (hazelnut), oat products, oats, products, pumpkin seeds, rye, spices (chilli powder), spices (curry), sunflower seeds, wheat

NIVALENOL

incidence: $2/22^*$, conc. range: $30-100 \mu g/kg$, \varnothing conc.: $65 \mu g/kg$, country: India⁴³⁰, *refined incidence: $1/28^*$, conc.: $25 \mu g/kg$, country: Germany⁵¹⁹, *white

incidence: $1/13^*$, conc.: 25 µg/kg, country: Germany⁵¹⁹, *white

incidence: 5/19*, conc. range: 25–40 µg/kg, \varnothing conc.: 28 µg/kg, country: Germany⁵¹⁹, *whole-grain

incidence: 12/36*, conc. range: 4–84 µg/kg, \varnothing conc.: 24 µg/kg, country: Japan⁵³¹, *and unknown origin

incidence: 1/6*, conc.: 12 µg/kg, country: Japan⁵³², *and unknown origin incidence: 1/1* **, conc.: 310 µg/kg, country: Papua, New Guinea⁵⁷⁴, *from Australia, **fine-ground biscuit

incidence: 2/37* **, conc. range: 38–100 µg/kg, country: India⁷⁸⁸, *refined, **partly rain-affected

see also barley, beer, biscuits, bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), flour, flour (barley), flour (maize), flour (rye), food, germ (wheat), grits (maize), grits (wheat), Job's-tears, maize, malt (barley), meal (millet), millet, noodles, oat products, oats, rice, rye, snacks, sorghum, soybeans, spices (chilli sauce), spices (curry), spices (curry paste), spices (curry powder), spices (garlic), spices (ginger), spices (tandoori), wheat

OCHRATOXIN A

incidence: 108/156*, conc. range: ≤16 μg/kg, Ø conc.: 0.3 μg/kg**, country: Denmark²⁶⁵, *cg, **arithmetic mean incidence: 101/120*, conc. range: ≤19 μg/kg, Ø conc.: 0.5 μg/kg**, country: Denmark²⁶⁵, *og, **arithmetic mean

incidence: 12/13*, conc. range: 0.1–1.9 μg/kg, Ø conc.: 0.5 μg/kg, country: Switzerland⁵⁷⁸, *brown

incidence: 2/16, conc. range: 0.11–0.15 µg/kg, \varnothing conc.: 0.13 µg/kg**, country: Hungary⁵⁹³ incidence: 6/27, conc. range: 1–5 µg/kg (6 sa), country: Czechoslovakia⁵⁹⁵ incidence: 1/4*, conc. range: 0.3–0.5 µg/kg, country: Taiwan⁶⁰⁷, *whole incidence: 82/98*, conc. range: ≤ 1 µg/kg, \varnothing

incidence: 82/98*, conc. range: ≤1 μg/kg, ∅ conc.: 0.105 μg/kg, country: Germany⁶⁹⁰, *<T550

incidence: 77/83*, conc. range: \leq 1.732 µg/kg, \varnothing conc.: 0.203 µg/kg, country: Germany⁶⁹⁰, *>T550

incidence: 7/61, conc. range: 0.3–0.9 μ g/kg (2 sa), 1–2.4 μ g/kg (4 sa), 2.8 μ g/kg (1 sa), country: UK⁷⁷⁴

see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, ligourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts

(coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

T-2 Toxin

incidence: 2/22*, conc. range: 550–800 μg/kg, Ø conc.: 675 μg/kg, country: India⁴³⁰, *refined

incidence: 1/19*, conc.: 4 µg/kg, country: Germany⁵¹⁹, *whole-grain incidence: 1/37* **, conc.: 800 µg/kg, country: India⁷⁸⁸, *refined, **partly rain-affected

see also barley, beans, beer, bran (oat), bran (wheat), bread, cereals, cereals (breakfast), flakes (oat), flour, flour (maize), food, grits (maize), maize, nuts (hazelnut), nuts (peanut), oat products, oats, rice, rye, sorghum, spices (curry), spices (ginger), spices (tandoori), sunflower seeds, wheat

Zearalenone

incidence: 2/17*, conc. range: 12–14 µg/kg, \varnothing conc.: 13 µg/kg, country: USA⁴²⁴, */muffin mix

incidence: $3/28^*$, conc. range: $1-2 \mu g/kg$, \varnothing conc.: $1 \mu g/kg$, country: Germany⁵¹⁹, *white incidence: $4/13^*$, conc. range: $1-8 \mu g/kg$, \varnothing conc.: $4 \mu g/kg$, country: Germany⁵¹⁹, *white

incidence: 15/19*, conc. range: 2–24 µg/kg, Ø conc.: 6 µg/kg, country: Germany⁵¹⁹, *whole-grain incidence: 3/27, conc. range: 1–6 µg/kg, Ø conc.: 3 µg/kg, country: Japan⁵³¹ incidence: 1/1* **, conc.: 250 μg/kg, country: Papua, New Guinea⁵⁷⁴, *from Australia, **raw see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel),

Food may contain the following mycotoxins:

spices (garlic pickle), spices (pepper),

sunflower seeds, vegetables, wheat

AFLATOXIN B₁

incidence: 30/322*, conc. range: ≤793 µg/kg, Ø conc.: 60 μg/kg, country: Brazil¹²⁹, *cooked incidence: 4/32*, conc. range: 8-11 μg/kg, country: Korea⁷⁸⁵, *barley-based incidence: 4/47*, conc. range: 8-10 µg/kg, country: Korea⁷⁸⁵, *maize-based see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food (infant), fruit products, fruits (apricot),

fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂

incidence: 28/322*, conc. range: ≤194 μg/kg, Ø conc.: 30 μg/kg, country: Brazil¹²⁹, *cooked see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food (infant), fruits (lemon), fruits (mango), Ga Kenkey,

grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Aflatoxin G₁

incidence: 16/322*, conc. range: ≤268 μg/kg, Ø conc.: 52 μg/kg, country: Brazil¹²⁹, *cooked see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne),

spices (pinhol), spices (turmeric), sunflower seeds, wine

AFLATOXIN G₂

incidence: 21/322*, conc. range: <152 µg/kg, Ø conc.: 20 μg/kg, country: Brazil¹²⁹, *cooked see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (maize), flour (wheat), fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

Aflatoxins (B_1, B_2, G_1, G_2) incidence: 22/364*, Ø conc.: 510 µg/kg, max. conc.: 3904 µg/kg, country: Thailand163, *prepared incidence: ?/8*, conc. range: 0.2-1.4 µg/kg, country: UK⁷³², *canned see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (fig), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

CITRININ

incidence: 10/33* **, conc. range: 22–105 µg/kg, country: Germany⁷¹⁵, *imported, **vegetarian "meat-like" and Asian see also angkak (red mold rice), barley, cereals, cheese, food colorant, fruits (apple), maize, maize dough, meal (copra), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), oil seed rape, olives, rice, spices, spices (cardamom), spices (coriander), spices (cumin), spices (fennel), spices (pepper), spices (turmeric), wheat

Deoxynivalenol

incidence: 15/29, conc. range: 15-505 µg/kg, Ø conc.: 138 μg/kg, country: Germany⁵¹⁷ incidence: 9/23*, conc. range: 11-227 μg/kg, Ø conc.: 55 μg/kg, country: Germany⁵²⁰, *gluten-free incidence: 545/1257*, conc. range: 9-4060 μg/kg, country: Canada⁵²¹, *wheat-based incidence: ?/8*, conc. range: 4-9 µg/kg, country: UK732, *canned see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

3-ACETYLDEOXYNIVALENOL

incidence: 2/29, conc. range: 11 µg/kg, Ø conc.: 11 µg/kg, country: Germany⁵¹⁷ see also barley, bread, cereals, cereals (breakfast), flakes (oat), flour (maize), flour (wheat), food (baby), grits (maize), maize, oat products, oats, rice, rye, snacks, wheat

15-ACETYLDEOXYNIVALENOL incidence: 5/23*, conc. range: 11–98 μg/kg, Ø conc.: 33 μg/kg, country: Germany⁵²⁰, *gluten-free see also barley, bran (oat), bran (wheat), cereals (breakfast), flour (maize), flour (wheat), grits (maize), maize, noodles, oat products, oats, snacks, wheat

Fumonisin B₁

incidence: 7/47*, conc. range: 43–119 μg/kg, country: Korea⁷⁸⁵, *maize-based see also arepas, asparagus, barley, batter, beans, beer, bran (maize), bread, cake (rice), cereals, cereals (breakfast), chamomile, chips (maize), chips (tortilla), flakes (corn), flour (maize), food (baby), foodstuff, grits (maize), Incaparina, leaves, maize, maize fiber, maize muffin, maize products, maize silk, maize starch, masa, meal (maize), meal (sorghum), milk, muffin mix, nuts (peanut), pancake, popcorn, rapoko, rice, snacks, sorghum, soybeans, syrup (sorghum), tea, tortillas, wheat

Fusarenon X

incidence: 1/8*, conc.: 15 µg/kg, country: UK⁷³², *canned see also cereals (breakfast), flour (maize), maize, oat products, spices (curry), spices (garlic)

HT-2 Toxin

incidence: 11/29, conc. range: 12–51 μg/kg, Ø conc.: 21 μg/kg, country: Germany⁵¹⁷ incidence: 2/23*, conc. range: 5 μg/kg, Ø conc.: 5 μg/kg, country: Germany⁵²⁰, *gluten-free see also barley, bran (oat), bran (wheat), bread, cereal (baby), cereals, cereals (breakfast), flakes (oat), flour (maize), flour (wheat), food (baby), germ (wheat), grits (maize), groats (oat), maize, noodles, nuts (hazelnut), oat products, oats, products, pumpkin seeds, rye, spices (chilli powder),

Nivalenol

incidence: 2/29, conc. range: 25–231 µg/kg, \varnothing conc.: 128 µg/kg, country: Germany⁵¹⁷

spices (curry), sunflower seeds, wheat

incidence: 1/23*, conc.: 21 µg/kg, country: Germany⁵²⁰, *gluten-free incidence: 1/8*, conc.: 18 µg/kg, country: UK⁷³², *canned see also barley, beer, biscuits, bran (wheat), bread, cake, cereal (baby), cereals,cereals (breakfast), flour, flour (barley), flour (maize), flour (rye), flour (wheat), germ (wheat), grits (maize), grits (wheat), Job's-tears, maize, malt (barley), meal (millet), millet, noodles, oat products, oats, rice, rye, snacks, sorghum, soybeans, spices (chilli sauce), spices (curry), spices (curry paste), spices (curry powder), spices (garlic), spices (ginger), spices (tandoori), wheat

OCHRATOXIN A

incidence: ?/8*, conc. range: 0.1-0.3 µg/kg, country: UK⁷³², *canned incidence: 4/32*, conc. range: 7–8 μg/kg, country: Korea⁷⁸⁵, *barley-based see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk

(human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

T-2 Toxin

incidence: 6/29, conc. range: 4–39 μg/kg, Ø conc.: 18 μg/kg, country: Germany⁵¹⁷ incidence: 1/23*, conc.: 6 μg/kg, country: Germany⁵²⁰, *gluten-free see also barley, beans, beer, bran (oat), bran (wheat), bread, cereals, cereals (breakfast), flakes (oat), flour, flour (maize), flour (wheat), grits (maize), maize, nuts (hazelnut), nuts (peanut), oat products, oats, rice, rye, sorghum, spices (curry), spices (ginger), spices (tandoori), sunflower seeds, wheat

ZEARALENONE

incidence: 13/23*, conc. range: 2–14 μg/kg, Ø conc.: 6 μg/kg, country: Germany⁵²⁰, *gluten-free incidence: 17/336*, conc. range: 5–178 μg/kg, country: Canada⁵²¹ incidence: 1/8*, conc.: 6.1 μg/kg, country: UK⁷³², *canned see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal

123 Food (baby)

(baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Food colorant may contain the following mycotoxins:

CITRININ

incidence: 2/2*, conc. range: 157–2800 µg/kg, \varnothing conc.: 1478 µg/kg, country: Germany⁷¹⁵, *imported?

see also angkak (red mold rice), barley, cereals, cheese, food, fruits (apple), maize, maize dough, meal (copra), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), oil seed rape, olives, rice, spices, spices (cardamom), spices (coriander), spices (cumin), spices (fennel), spices (pepper), spices (turmeric), wheat

Food (baby) may contain the following mycotoxins:

Deoxynivalenol

incidence: 15/25, conc. range: 15–314 μg/kg, Ø conc.: 61 μg/kg, country: Germany⁵¹⁷ incidence: 7/18*, conc. range: ≤90 μg/kg, country: USA⁵⁴⁵, *cereals incidence: 5/10*, conc. range: ≤70 μg/kg, country: USA⁵⁴⁵, *cookies incidence: 1/3*, conc.: 40 μg/kg, country: USA⁵⁴⁵, *toast incidence: 1/8*, conc.: 40 μg/kg, country: USA⁵⁴⁵, *cream corn, noodles see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rve), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

3-ACETYLDEOXYNIVALENOL incidence: 1/25, conc.: 11 μg/kg, country: Germany⁵¹⁷ see also barley, bread, cereals, cereals (breakfast), flakes (oat), flour (maize), flour (wheat), food, grits (maize), maize, oat products, oats, rice, rye, snacks, wheat

Fumonisin B₁

incidence: 12/12* **, conc. range: 60–893 μg/kg, Ø conc.: 355 μg/kg, country: South Africa⁶¹⁵, *from Brazil, **instant maize-based see also arepas, asparagus, barley, batter, beans, beer, bran (maize), bread, cake (rice), cereals, cereals (breakfast), chamomile, chips (maize), chips (tortilla), flakes (corn), flour (maize), food, foodstuff, grits (maize), Incaparina, leaves, maize, maize fiber, maize muffin, maize products, maize silk, maize starch, masa, meal (maize), meal (sorghum), milk, muffin mix, nuts (peanut), pancake, popcorn, rapoko, rice, snacks, sorghum, soybeans, syrup (sorghum), tea, tortillas, wheat

Fumonisin B₂

incidence: 7/12* **, conc. range: nd–145 μg/kg, Ø conc.: 90 μg/kg, country: South Africa⁶¹⁵, *from Brazil, **instant maize-based see also arepas, asparagus, barley, batter, beer, bran (maize), cereals, cereals (breakfast), chips (maize), chips (tortilla), flakes (corn),

Food (baby) 124

flour (maize), foodstuff, grits (maize), Incaparina, maize, maize fiber, maize starch, masa, meal (maize), muffin mix, pancake, popcorn, rice, snacks, tortillas, wheat

Fumonisin B₃

incidence: 7/12* **, conc. range: nd–58 μg/kg, Ø conc.: 49 μg/kg, country: South Africa⁶¹⁵, *from Brazil,**instant maize-based see also barley, cereal products, cereals, flour (maize), Incaparina, maize, meal (maize), pancake, popcorn, rice, snacks

HT-2 Toxin

incidence: 1/25, conc.: 12 μg/kg, country: Germany⁵¹⁷

see also barley, bran (oat), bran (wheat), bread, cereal (baby), cereals, cereals (breakfast), flakes (oat), flour (maize), flour (wheat), food, germ (wheat), grits (maize), groats (oat), maize, noodles, nuts (hazelnut), oat products, oats, products, pumpkin seeds, rye, spices (chilli powder), spices (curry), sunflower seeds, wheat

incidence: 6/10* **, conc. range: 0.14-0.65

μg/kg, country: Italy⁵⁷⁹, *c, **batches

OCHRATOXIN A

incidence: 1/10* ** ***, conc.: 0.18 μg/kg, country: Italy⁵⁷⁹, *semolina, **o, ***batches incidence: 5/11* ** ***, conc. range: 0.24-0.74 μg/kg, country: Italy⁵⁷⁹, *rice, **o, incidence: 8/10* ** ***, conc. range: <0.4? μg/kg, country: Italy⁵⁷⁹, *multicereal, **c, ***batches incidence: 14/15*, conc. range: ≤0.74 µg/kg, country: Spain⁶⁰⁹, *multi-cereals incidence: 2/34*, conc. range: 0.1-0.2 µg/kg, Ø conc.: 0.2 μg/kg, country: Germany⁶⁴⁰, *multi-cereals incidence: 20/182*, conc. range: 0.05-0.57 $\mu g/kg$, \varnothing conc.: 0.16 $\mu g/kg$, country: UK⁸³⁷, *and from different countries see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate

cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

PATULIN

incidence: 11/42*, conc. range: 10–100 μg/kg, Ø conc.: 20 μg/kg, country: France⁸⁵³, *apple-based 125 Food (infant)

see also apple cider, apple flavor, apples (stewed fruit), berries (blueberry), berries (lingnonberry), berries (mulberry), berries (raspberry), berries (strawberry), cassava, cheese, fruit products, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (pear), fruits (plum), jam, jam (apple), juice, juice (apple), juice (apple-acerola), juice (apple, concentrate), juice (cherry), juice (currant), juice (fruit), juice (grape), juice (orange), juice (peach), juice (pear), must, pulp (plum), syrup (apple), vinegar

Food (infant) may contain the following mycotoxins:

incidence: 30/30*, conc. range: 0.004-0.161

incidence: 14/26*, conc. range: 0.002-0.996

μg/kg, country: Canada⁵⁵⁹, *soy-based

Aflatoxin B₁

μg/kg, country: Canada⁵⁵⁹, *rice-based incidence: 42/88*, conc. range: 0.002-0.080 μg/kg, country: Canada⁵⁵⁹, *mixed-grain incidence: 3/27*, conc. range: 0.003-0.009 μg/kg, country: Canada⁵⁵⁹, *barley-based incidence: 2/10, conc. range: tr-5 µg/kg, country: Argentina⁸⁵⁴ see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, fruit products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho),

meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂

incidence: 20/30*, conc. range: 0.002-0.019 μg/kg, country: Canada⁵⁵⁹, *soy-based incidence: 11/26*, conc. range: 0.002-0.108 μg/kg, country: Canada⁵⁵⁹, *rice-based incidence: 9/88*, conc. range: 0.002-0.012 μg/kg, country: Canada⁵⁵⁹, *mixed-grain see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts

Food (infant)

(peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Deoxynivalenol

incidence: 33/53*, conc. range: \leq 90 µg/kg, \varnothing conc.: 52 µg/kg, country: Canada⁷⁹⁶, *oat-based

incidence: 29/50*, conc. range: ≤980 µg/kg, Ø conc.: 260 µg/kg, country: Canada⁷⁹⁶, *barley-based

incidence: 8/8*, conc. range: ≤240 μg/kg, Ø conc.: 116 μg/kg, country: Canada⁷⁹⁶, *soy-based

incidence: 62/86*, conc. range: ≤400 μg/kg, Ø conc.: 116 μg/kg, country: Canada⁷⁹⁶, *multi-grain

incidence: 18/24*, conc. range: ≤120 µg/kg, Ø conc.: 60 µg/kg, country: Canada⁷⁹⁶, *teething biscuits

incidence: 5/10, conc. range: 250-1000 µg/kg, Ø conc.: 610 μg/kg, country: Argentina⁸⁵⁴ see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli

powder), spices (coriander), spices (garlic), spices (ginger), wheat

ERGOT ALKALOIDS

incidence: 2/6*, conc. range: 5 μg/kg, Ø conc.: 5 μg/kg, country: Canada⁷⁹⁶, *oat-based incidence: 31/55*, conc. range: ≤108 μg/kg, Ø conc.: 32 μg/kg, country: Canada⁷⁹⁶, *barley-based incidence: 6/75*, conc. range: ≤47 μg/kg, Ø conc.: 15 μg/kg, country: Canada⁷⁹⁶, *multi-grain incidence: 2/9*, conc. range: 4 μg/kg, Ø conc.: 4 μg/kg, country: Canada⁷⁹⁶, *teething biscuits

Fumonisins (B_1, B_2)

see also wheat

incidence: 18/24*, conc. range: ≤130 μg/kg, Ø conc.: 44 μg/kg, country: Canada⁷⁹⁶, *soy-based incidence: 1/25*, conc.: 10 μg/kg, country:

Canada⁷⁹⁶, *rice-based incidence: 22/69*, conc. range: ≤120 μg/kg, Ø conc.: 43 μg/kg, country: Canada⁷⁹⁶, *multi-grain

incidence: 1/2*, conc.: 20 µg/kg, country: Canada⁷⁹⁶, *teething biscuits see also beer, flour (maize), maize, meal (maize), noodles, rice, spice powder, spices (chilli pickle), spices (curry), spices (curry paste), spices (curry powder), spices (tandoori)

OCHRATOXIN A

incidence: 66/97*, conc. range: ≤2.13 μg/kg, Ø conc.: 0.118 μg/kg, country: Germany⁶⁹⁰, *unripe spelt incidence: 2/6*, conc. range: ≤0.4 μg/kg, Ø conc.: 0.37 μg/kg, country: Canada⁷⁹⁶, *oat-based incidence: 10/47*, conc. range: ≤6.9 μg/kg, Ø conc.: 1 μg/kg, country: Canada⁷⁹⁶, *barley-based incidence: 7/22*, conc. range: ≤0.9 μg/kg, Ø conc.: 0.47 μg/kg, country: Canada⁷⁹⁶, *soy-based incidence: 1/8*, conc.: 2.4 μg/kg, country: Canada⁷⁹⁶, *rice-based 127 Food (infant)

incidence: $21/72^*$, conc. range: $\leq 0.9 \,\mu\text{g/kg}$, \varnothing conc.: 0.4 µg/kg, country: Canada⁷⁹⁶, *multi-grain incidence: 1/5*, conc.: 0.28 µg/kg, country: Canada⁷⁹⁶, *teething biscuits see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices

(curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

ZEARALENONE

incidence: 1/13*, conc.: 4 μg/kg, country: Germany²⁴⁴, *grain mash and rusk incidence: 4/29*, conc. range: ≤22 μg/kg, Ø conc.: 10.2 μg/kg, country: Canada⁷⁹⁶, *barley-based

incidence: 23/30*, conc. range: \leq 35 µg/kg, \varnothing conc.: 18.4 µg/kg, country: Canada⁷⁹⁶, *soy-based

incidence: 1/7*, conc.: 1 μg/kg, country: Canada⁷⁹⁶, *rice-based

incidence: 30/71*, conc. range: \leq 32 µg/kg, \varnothing conc.: 10.7 µg/kg, country: Canada⁷⁹⁶, *multi-grain

incidence: 1/7*, conc.: 8 µg/kg, country: Canada⁷⁹⁶, *teething biscuits incidence: 1/10, conc.: tr, country:

Argentina⁸⁵⁴ see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Foods 128

Foods

see Food

Foodstuff may contain the following mycotoxins:

Fumonisin B₁ incidence: 1/5* **, conc.: 55 µg/kg, country: South Africa⁴¹³, *from Peru, USA, **maize-based, alkali treated incidence: 6/12* **, conc. range: ≤700 µg/kg, Ø conc.: 300.7 μg/kg, country: South Africa⁴¹³, *and USA, **miscellaneous incidence: $2/6^*$ **, conc. range: $\leq 73 \mu g/kg$, \varnothing conc.: 57.2 µg/kg, country: Taiwan⁴¹⁸, *maize-based, **miscellaneous incidence: 22/34*, conc. range: 28-2679 μg/kg, country: USA⁴⁵³, *maize-based incidence: 1*/336, conc.: 209 μg/kg, country: UK⁷³⁴, *maize-based see also arepas, asparagus, barley, batter, beans, beer, bran (maize), bread, cake (rice), cereals, cereals (breakfast), chamomile, chips (maize), chips (tortilla), flakes (corn), flour (maize), food, food (baby), grits (maize), Incaparina, leaves, maize, maize fiber, maize muffin, maize products, maize silk, maize starch, masa, meal (maize), meal (sorghum), milk, muffin mix, nuts (peanut), pancake, popcorn, rapoko, rice, snacks, sorghum, soybeans, syrup (sorghum), tea, tortillas, wheat

Fumonisin B₂

incidence: 3/12* **, conc. range: ≤240 μg/kg, Ø conc.: 148 μg/kg, country: South Africa⁴¹³, *and USA, **miscellaneous incidence: 10/34*, conc. range: 30–797 μg/kg, country: USA⁴⁵³, *maize-based see also arepas, asparagus, barley, batter, beer, bran (maize), cereals, cereals (breakfast), chips (maize), chips (tortilla), flakes (corn), flour (maize), food (baby), grits (maize), Incaparina, maize, maize fiber, maize starch, masa, meal (maize), muffin mix, pancake, popcorn, rice, snacks, tortillas, wheat

Moniliformin

incidence: $24/34^*$, conc. range: tr–858 µg/kg, country: USA⁴⁵³, *maize-based

see also barley, corn on the cob, flakes (corn), flour (maize), grits (maize), maize, maize-based thickeners, meal (maize), oats, popcorn, rye, snacks, triticale, wheat

ZEARALENONE incidence: 12/32*, conc. range: 3.4-120 μg/kg, Ø conc.: 40 μg/kg, country: Korea⁵⁰⁶, *barley-based incidence: 9/47*, conc. range: 3.6-84 µg/kg, \emptyset conc.: 22 µg/kg, country: Korea⁵⁰⁶, *maize-based see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Food products

see Foodstuff

Fresh cheese

see Cheese

Fresh kasar

see Cheese

Fruit products may contain the following mycotoxins:

Aflatoxin B₁

incidence: 1*/32**, conc.: 4600 µg/kg, country: GDR¹⁷⁸, *moldy, **includes fruits and fruit products

129 Fruits

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

PATULIN

conc.: 10 µg/kg, country: South Africa²²², *apple see also apple cider, apple flavor, apples (stewed fruit), berries (blueberry), berries (lingnonberry), berries (mulberry), berries (raspberry), berries (strawberry), cassava, cheese, food (baby), fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (pear), fruits (plum), jam, jam (apple), juice, juice (apple, juice (apple-acerola), juice (apple, concentrate), juice (cherry), juice (currant), juice (fruit), juice (grape), juice (orange), juice (peach), juice (pear), must, pulp (plum), syrup (apple), vinegar

incidence: 2/6*, conc. range: 10 µg/kg, Ø

Fruits may contain the following mycotoxins:

Aflatoxins (B_1, B_2, G_1, G_2) incidence: 6/157*, conc. range: 2-20 µg/kg (6 sa), country: Uruguay⁷⁸⁷, *dried see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (fig), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

Ochratoxin A

incidence: 26/49*, conc. range: ≤0.09 µg/kg, country: Germany⁵⁹², *different, dried see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat,

Fruits 130

butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

ZEARALENONE

incidence: 6/154*, conc. range: 100-200 $\mu g/kg$ (3 sa), >200 $\mu g/kg$ (3 sa), country: Uruguay⁷⁸⁷, *dried see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Fruits (apple) may contain the following mycotoxins:

ALTENUENE

incidence: 5/8, conc. range: <100–500 μg/kg, country: USA³⁴⁴ see also barley, maize, olives, ragi, rice, sorghum, tomatoes, wheat

ALTERNARIOL

incidence: 7/8, conc. range.: <100–58,800 μg/kg , country: USA³⁴⁴ incidence: 1/22*, conc.: 160 μg/kg, country: Germany³⁴⁵, *moldy see also bran, fruits (Mandarin fruit), juice (apple, concentrate), olives, spices (pepper), sunflower seeds, tomatoes, wheat

Alternariol Methyl Ether incidence: 8/8, conc. range: <100–2300 μg/kg, country: USA³⁴⁴ incidence: 1/22*, conc.: 250 μg/kg, country: Germany³⁴⁵, *moldy

131 Fruits (apple)

see also barley, bran, fruits (mandarin fruit), fruits (melon), juice (apple, concentrate), olives, ragi, sorghum, spices (pepper), sunflower seeds, tomatoes, wheat

ALTERTOXIN-I incidence: 5/8, conc. range: nc, country: USA³⁴⁴ see also sorghum, wheat

CITRININ

incidence: 83/351*, Ø conc.: 601 µg/kg, country: Portugal⁷⁰¹, *with rotten spots see also angkak (red mold rice), barley, cereals, cheese, food, food colorant, maize, maize dough, meal (copra), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), oil seed rape, olives, rice, spices, spices (cardamom), spices (coriander), spices (cumin), spices (fennel), spices (pepper), spices (turmeric), wheat

incidence: 2/4*, conc. range: 0.23–0.41 µg/kg,

OCHRATOXIN A

 \emptyset conc.: 0.32 µg/kg, country: Germany²⁸⁹, *moldy see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, ligourice, ligourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver

(turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

PATULIN

incidence: 3/17, conc. range: 0.2-1.6 µg/kg, country: Italy105 incidence: 5/12*, conc. range: 300-42,000 μg/kg, country: GDR¹⁷⁸, *with rotten spots incidence: 21/21*, conc. range: 2-113,343 μg/kg, Ø conc.: 12,464 μg/kg, country: Italy694, *rotten area incidence: 17/21*, conc. range: 0.05-1166 μg/kg, Ø conc.: 152 μg/kg, country: Italy⁶⁹⁴, *unaffected area with peel incidence: 7/21*, conc. range: 0.44-93 µg/kg, Ø conc.: 16.3 μg/kg, country: Italy⁶⁹⁴, *unaffected area without peel incidence: 18/52*, conc. range: 5-50 µg/kg (18 sa, with a maximum of 32 µg/kg), country: Australia⁶⁹⁷, *and mixed fruit products

incidence: 6/6, conc. range: 150–267 µg/kg, \varnothing conc.: 220 µg/kg, country: Brazil⁶⁹⁸

Fruits (apple) 132

incidence: 310/351*, Ø conc.: 18,800 μg/kg, country: Portugal⁷⁰¹, *with rotten spots incidence: 2/6*, conc. range: ≤1240 µg/kg, country: France⁷⁷⁶, *organic incidence: 70/100*, conc. range: 1-4800 μg/kg, Ø conc.: 1830 μg/kg, country: France⁸⁵³, *decayed incidence: 55/104*, conc. range: 1-250,000 μg/kg, country: Spain⁸⁶⁰, *different see also apple cider, apple flavor, apples (stewed fruit), berries (blueberry), berries (lingnonberry), berries (mulberry), berries (raspberry), berries (strawberry), cassava, cheese, food (baby), fruit products, fruits (apricot), fruits (cherry), fruits (peach), fruits (pear), fruits (plum), jam, jam (apple), juice, juice (apple), juice (apple-acerola), juice (apple, concentrate), juice (cherry), juice (currant), juice (fruit), juice (grape), juice (orange), juice (peach), juice (pear), must, pulp (plum), syrup (apple), vinegar

Fruits (apricot) may contain the following mycotoxins:

Aflatoxin B_1

incidence: 13/15, conc. range: \leq 4167 µg/kg, country: Turkey⁸⁵⁸

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal

(peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

OCHRATOXIN A

incidence: 3/3*, conc. range: 50-110 μg/kg, country: Egypt²⁸¹, *dried see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum),

133 Fruits (cherry)

grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

PATULIN

incidence: 6/12, conc. range: 2000–13,000 µg/kg, country: Spain⁸⁶⁰ see also apple cider, apple flavor, apples (stewed fruit), berries (blueberry), berries (lingnonberry), berries (mulberry), berries (raspberry), berries (strawberry), cassava, cheese, food (baby), fruit products, fruits (apple), fruits (cherry), fruits (peach), fruits (pear), fruits (plum), jam, jam (apple), juice, juice (apple), juice (apple-acerola), juice (apple, concentrate), juice (cherry), juice (currant), juice (fruit), juice (grape), juice

(orange), juice (peach), juice (pear), must, pulp (plum), syrup (apple), vinegar

Fruits (cherry) may contain the following mycotoxins:

OCHRATOXIN A

incidence: 6/6*, conc. range: tr-2.71 µg/kg, country: Germany²⁸⁹, *moldy see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, ligourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice

Fruits (cherry) 134

powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

PATULIN

incidence: 9/10, conc. range: 5.6–113.3 µg / l, \varnothing conc.: 37 µg/kg, country: Turkey⁷¹⁹ see also apple cider, apple flavor, apples (stewed fruit), berries (blueberry), berries (lingnonberry), berries (mulberry), berries (raspberry), berries (strawberry), cassava, cheese, food (baby), fruit products, fruits (apple), fruits (apricot), fruits (peach), fruits (pear), fruits (plum), jam, jam (apple), juice, juice (apple), juice (apple-acerola), juice (apple, concentrate), juice (cherry), juice (currant), juice (fruit), juice (grape), juice (orange), juice (peach), juice (pear), must, pulp (plum), syrup (apple), vinegar

Fruits (lemon) may contain the following mycotoxins:

AFLATOXIN B₁

incidence: $19/40^*$, \varnothing conc.: $195 \mu g/kg$, country: India¹⁸¹, *pickled in salt, stored in polythene bags

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean),

Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxin B_2

incidence: $19/40^*$, \varnothing conc.: $42 \mu g/kg$, country: India¹⁸¹, *pickled in salt, stored in polythene bags

see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and

135 Fruits (mango)

beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Aflatoxin G₁

incidence: 19/40*, Ø conc.: 110 μg/kg, country: India181, *pickled in salt, stored in polythene bags see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

AFLATOXIN G₂

incidence: $19/40^*$, \varnothing conc.: $25~\mu g/kg$, country: India¹⁸¹, *pickled in salt, stored in polythene bags

see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (mango), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

Fruits (mandarin fruit) may contain the following mycotoxins:

ALTERNARIOL

incidence: 2/3, conc. range: 1000–5200 μg/kg, Ø conc: 3100 μg/kg, country: Italy³⁴⁰ see also bran, fruits (apple), juice (apple, concentrate), olives, spices (pepper), sunflower seeds, tomatoes, wheat

ALTERNARIOL METHYL ETHER incidence: 2/3, conc. range: 550–1400 μg/kg, Ø conc.: 975 μg/kg, country: Italy³⁴⁰ see also barley, bran, fruits (apple), fruits (melon), juice (apple, concentrate), olives, ragi, sorghum, spices (pepper), sunflower seeds, tomatoes, wheat

TENUAZONIC ACID

incidence: 3/3, conc. range: 21,000–173,900 $\mu g/kg$, \varnothing conc.: 94,033 $\mu g/kg$, country: Italy³⁴⁰ see also bran, cassava, maize, olives, pulp (tomato), ragi, rice, sorghum, spices (pepper), sunflower seeds, tomato purée, tomatoes, wheat

Fruits (mango) may contain the following mycotoxins:

Fruits (mango) 136

Aflatoxin B_1

incidence: $4/8^*$, \varnothing conc.: 52 µg/kg, country: India¹⁸¹, *pickled in salt, stored in bottles incidence: $26/40^*$, \varnothing conc.: 210 µg/kg, country: India¹⁸¹, *pickled in salt, stored in polythene bags

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxin B₂

incidence: $4/8^*$, \varnothing conc.: 5 µg/kg, country: India¹⁸¹, *pickled in salt, stored in bottles incidence: $26/40^*$, \varnothing conc.: 32 µg/kg, country: India¹⁸¹, *pickled in salt, stored in polythene bags

see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Aflatoxin G_1

incidence: $4/8^*$, \varnothing conc.: 24 µg/kg, country: India¹⁸¹, *pickled in salt, stored in bottles incidence: $26/40^*$, \varnothing conc.: 184 µg/kg, country: India¹⁸¹, *pickled in salt, stored in polythene bags

137 Fruits (peach)

see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

Aflatoxin G₂

pickled in salt, stored in bottles incidence: $26/40^$, \varnothing conc.: 15 µg/kg, country: India181, *pickled in salt, stored in polythene bags see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

incidence: 4/8*, Ø conc.: tr, country: India¹8¹,

Fruits (melon) may contain the following mycotoxins:

ALTERNARIOL METHYL ETHER incidence: 1/1, conc.: 51 μg/kg*, country: Italy³⁴⁰, *calculated on dry weight sample see also barley, bran, fruits (apple), fruits (mandarin fruit), juice (apple, concentrate), olives, ragi, sorghum, spices (pepper), sunflower seeds, tomatoes, wheat

Fruits (peach) may contain the following mycotoxins:

OCHRATOXIN A

incidence: 1/9*, conc.: 0.59 μg/kg, country: Germany²⁸⁹, *moldy see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, ligourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts

Fruits (peach) 138

(walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

PATULIN

incidence: 2/4*, conc. range: 200–400 µg/kg, \varnothing conc.: 300 µg/kg, country: GDR¹⁷⁸, *stewed, moldy

incidence: 1/8, conc.: 6 μ g/kg (pulp), country: Sweden⁴⁸⁰

incidence: 4/4, conc. range: 92–174 μg/kg, Ø conc.: 120 μg/kg, country: Brazil⁶⁹⁸ incidence: 6/15, conc. range: tr–20 000 μg/kg

incidence: 6/15, conc. range: tr–20,000 μg/kg, country: Spain⁸⁶⁰

see also apple cider, apple flavor, apples (stewed fruit), berries (blueberry), berries (lingnonberry), berries (mulberry), berries (raspberry), berries (strawberry), cassava, cheese, food (baby), fruit products, fruits (apple), fruits (apricot), fruits (cherry), fruits (pear), fruits (plum), jam, jam (apple), juice, juice (apple), juice (apple-acerola), juice (apple, concentrate), juice (cherry), juice (currant), juice (fruit), juice (grape), juice (orange), juice (peach), juice (pear), must, pulp (plum), syrup (apple), vinegar

Fruits (pear) may contain the following mycotoxins:

PATULIN

incidence: 4/4, conc. range: 134–245 µg/kg, \varnothing conc.: 196 µg/kg, country: Brazil⁶⁹⁸

incidence: 8/24, conc. range: 900–10,000 µg/kg, country: Spain⁸⁶⁰ see also apple cider, apple flavor, apples (stewed fruit), berries (blueberry), berries (lingnonberry), berries (mulberry), berries (raspberry), berries (strawberry), cassava, cheese, food (baby), fruit products, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), jam, jam (apple), juice, juice (apple, juice (apple-acerola), juice (apple, concentrate), juice (cherry), juice (currant), juice (fruit), juice (grape), juice (orange), juice (peach), juice (pear), must, pulp (plum), syrup (apple), vinegar

Fruits (plum) may contain the following mycotoxins:

OCHRATOXIN A

incidence: 3/3*, conc. range: 210–280 μg/kg, country: Egypt²⁸¹, *dried

incidence: 1/19* **, conc.: 0.1-5 µg/kg (1 sa), country: Brazil865, *from worldwide, **dried see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize),

139 Fruits (prune)

meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pine), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

PATULIN

incidence: 1/6, conc.: 4 μ g/kg (pulp), country: Sweden⁴⁸⁰

see also apple cider, apple flavor, apples (stewed fruit), berries (blueberry), berries (lingnonberry), berries (mulberry), berries (raspberry), berries (strawberry), cassava, cheese, food (baby), fruit products, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (pear), jam, jam (apple), juice, juice (apple), juice (apple-acerola), juice (apple, concentrate), juice (cherry), juice (currant), juice (fruit), juice (grape), juice (orange), juice (peach), juice (pear), must, pulp (plum), syrup (apple), vinegar

Fruits (prune) may contain the following mycotoxins:

OCHRATOXIN A

incidence: 26/31*, conc. range: ≤0.07 μg/kg, country: Germany⁵⁹², *dried

incidence: 1/14*, conc.: 0.6 μg/kg, country: UK834, *imported see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard),

Fruits (prune) 140

spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Ga Kenkey may contain the following mycotoxins:

Aflatoxin B_1 incidence: 4*/4, conc. range: 1.1-153 µg/kg, country: Ghana²⁸⁰, *not all subsa contaminated at all collection dates see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil

(peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂

incidence: 4*/4, conc. range: 0.8-43.5 µg/kg, country: Ghana²⁸⁰, *not all subsa contaminated at all collection dates see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

141 Germ (wheat)

Aflatoxin G₁

incidence: 4*/4, conc. range: 1-69.4 µg/kg, country: Ghana²⁸⁰, *not all subsa contaminated at all collection dates see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

AFLATOXIN G₂

incidence: 4*/4, conc. range: 1.6-5.7 µg/kg, country: Ghana²⁸⁰, *not all subsa contaminated at all collection dates see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), gruel, maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

Gabi

see Tubers

Garlic

see Spices (garlic)

Garlic / onions

see Spices (garlic/onions)

Garlic pickle

see Spices (garlic pickle)

Germ (maize) may contain the following mycotoxins:

Fumonisins (B₁, B₂, B₃) incidence: 12/12, conc. range: 100–2000 μ g/kg, \varnothing conc.: 775 μ g/kg, country: USA³⁷⁰ see also bran (maize), cereals (breakfast), flour, flour (maize), grains, grits (maize), maize, maize-based thickeners, popcorn,

Germ (wheat) may contain the following mycotoxins:

Deoxynivalenol

snacks, tortillas

incidence: 5/5, conc. range: 31-95 µg/kg, Ø conc.: 50 μg/kg, country: Germany⁵²⁰ see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

HT-2 Toxin

incidence: 4/5, conc. range: 5–27 μg/kg, Ø conc.: 11 μg/kg, country: Germany⁵²⁰ Germ (wheat) 142

see also barley, bran (oat), bran (wheat), bread, cereal (baby), cereals, cereals (breakfast), flakes (oat), flour (maize), flour (wheat), food, food (baby), grits (maize), groats (oat), maize, noodles, nuts (hazelnut), oat products, oats, products, pumpkin seeds, rye, spices (chilli powder), spices (curry), sunflower seeds, wheat

NIVALENOL

incidence: 2/5, conc. range: 21–30 μg/kg, Ø conc.: 26 μg/kg, country: Germany⁵²⁰ see also barley, beer, biscuits, bran (wheat), bread, cake, cereal (baby), cereals,cereals (breakfast), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, grits (maize), grits (wheat), Job's-tears, maize, malt (barley), meal (millet), millet, noodles, oat products, oats, rice, rye, snacks, sorghum, soybeans, spices (chilli sauce), spices (curry), spices (curry paste), spices (curry powder), spices (garlic), spices (ginger), spices (tandoori), wheat

OCHRATOXIN A

incidence: 13/19, conc. range: ≤0.448 µg/kg, Ø conc.: 0.112 μg/kg, country: Germany⁶⁹⁰ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, ligourice,

liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

ZEARALENONE

incidence: 1/5, conc.: 3 $\mu g/kg$, country: Germany⁵²⁰

see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum,

143 Grain mixtures

soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

German blue cheese

see Cheese (blue)

Ginger

see Spices (ginger)

Goat cheese

see Cheese

Goose may contain the following mycotoxins:

OCHRATOXIN A

incidence: 5/12, conc. range: $\leq 0.1 \,\mu g/kg$, Ø conc.: 0.03 μg/kg, country: Denmark⁶²⁴ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal),

meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Gorgonzola cheese

see Cheese (blue)

Gouda cheese

see Cheese

Grain mixtures may contain the following mycotoxins:

Aflatoxins

incidence: 2*/16, conc. range: 1–100 µg/kg (2 sa), country: Uganda⁵, *2 sa contained AFB₁, 2 AFB₂, 2 AFG₁, 1 AFG₂ see also beans, candy (peanut), cassava, figs, flour (maize), grains, maize, maize dough, maize products, melon seeds, millet, nuts, nuts (almond), nuts (brazil), nuts (peanut), nuts (peanut butter), nuts (peanut mix), nuts (peanut products), nuts (pecan), nuts (pistachio), nuts (walnut), nuts and seeds, paste (peanut), paste (pipian), peas, rice, sauce (leaf), snacks, sorghum, spices, spices

Grain mixtures 144

(chilli), spices (cumin), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper), spices (tandoori), teff, tubers, wheat

Grains may contain the following mycotoxins:

Aflatoxins (B_1, B_2, G_1, G_2) incidence: 5/18, conc. range: 2-6 µg/kg, country: Australia¹³ see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (fig), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

AFLATOXINS

incidence: 2*/11, conc. range: 100–1000 µg/kg (1 sa), $>1000 \mu g/kg$ (1 sa), country: Uganda⁵, *2 sa contained AFB₁, 2 AFB₂, 2 AFG₁ see also beans, candy (peanut), candy (pistachio), cassava, figs, flour (maize), grain mixtures, maize, maize dough, maize products, melon seeds, millet, nuts, nuts (almond), nuts (brazil), nuts (peanut), nuts (peanut butter), nuts (peanut mix), nuts (peanut products), nuts (pecan), nuts (pistachio), nuts (walnut), nuts and seeds, paste (peanut), paste (pipian), peas, rice, sauce (leaf), snacks, sorghum, spices, spices (chilli), spices (cumin), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper), spices (tandoori), teff, tubers, wheat

Deoxynivalenol

incidence: 2/5, conc. range: 16-17 µg/kg, Ø conc.: 17 μg/kg, country: Germany⁵²⁰ see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

Fumonisins (B₁, B₂, B₃) incidence: 52/58* **, conc. range: 110–8400 μg/kg, Øconc.: 550 μg/kg, country: USA⁵⁵², *from Nepal, **maize, wheat see also bran (maize), cereals (breakfast), flour, flour (maize), germ (maize), grits (maize), maize, maize-based thickeners, popcorn, snacks, tortillas

8-Ketotrichothecene incidence: 10/58* **, conc. range: 1260–11,000 μg/kg, Ø conc.: 3200 μg/kg, country: USA⁵⁵², *from Nepal, **maize, wheat see also flour

Gram may contain the following mycotoxins:

Aflatoxin B₁

incidence: 10/28, conc. range: 8–74 μg/kg, country: India³⁹⁸

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour,

145 Grits

flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Gram flour

see Flour (gram)

Grana padano cheese

see Cheese

Grape iuice

see Juice (grape)

Gravyer cheese

see Cheese

Greater cardamom

see Spices (cardamom)

Grits may contain the following mycotoxins:

OCHRATOXIN A

incidence: 20?/25, conc. range: 0.1-0.19 µg/kg $(2 \text{ sa}), 0.2-0.49 \mu g/kg (2 \text{ sa}), 1.5-9.99 \mu g/kg$ (1 sa), country: Germany⁶²³ incidence: 10/25, conc. range: <2.58 µg/kg, Ø conc.: 0.41 µg/kg, country: Germany⁶⁹⁰ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black

Grits 146

pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Grits (barley) may contain the following mycotoxins:

Deoxynivalenol incidence: 1/1* ** ***, conc.: 36 μg/kg, country: Germany⁵⁶², *unknown origin, **whole grain, ***c see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

Grits (durum) may contain the following mycotoxins:

OCHRATOXIN A incidence: 4/4, conc. range: 0.8–2.7 μg/kg, Ø conc.: 1.7 μg/kg, country: Switzerland⁵⁷⁸

see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pine), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices

(tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Grits (maize) (synonym: polenta, semolina) may contain the following mycotoxins:

AFLATOXIN B₁

incidence: 15/50*, conc. range: $\leq 3 \mu g/kg$, country: Switzerland¹¹³, *and other maize products

incidence: 1/7, conc.: 21.3 μg/kg, country: Brazil²³⁰

incidence: 57*/288**, conc. range: 64–859 μg/kg, country: Nepal²³⁹, *>30 μg/kg, **and

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts

(walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxin B₂

incidence: 1/7, conc.: 2.4 μg/kg, country: Brazil²³⁰

see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Deoxynivalenol incidence: 1/1*, conc.: 40 μg/kg, country: Germany⁴³², *semolina incidence: 12/14*, conc. range: 15-229 µg/kg, Ø conc.: 93 μg/kg, country: Germany⁵¹⁶, *semolina incidence: 4/6*, conc. range: 15-84 µg/kg, Ø conc.: 40 μg/kg, country: Germany⁵²⁰, *semolina incidence: 1/1* **, conc.: 170 µg/kg, country: Germany⁵⁶², *from Italy, **o incidence: 2/3* **, conc. range: 130–910 µg/kg, Ø conc.: 640 μg/kg, country: Germany⁵⁶², *unknown origin, **c incidence: 7/8*, conc. range: 10-100 µg/kg (2 sa), >100-250 μg/kg (4 sa), 466 μg/kg (1 sa), country: UK836, *polenta see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic),

3-ACETYLDEOXYNIVALENOL incidence: 2/14*, conc. range: 15–17 μg/kg, Ø conc.: 16 μg/kg, country: Germany⁵¹⁶,

*semolina

spices (ginger), wheat

incidence: 4/8*, conc. range: 14–46 μg/kg, country: UK⁸³⁶, *polenta see also barley, bread, cereals, cereals (breakfast), flakes (oat), flour (maize), flour (wheat), food, food (baby), maize, oat products, oats, rice, rye, snacks, wheat

15-ACETYLDEOXYNIVALENOL incidence: 9/14*, conc. range: 15–45 μg/kg, Ø conc.: 24 μg/kg, country: Germany⁵¹⁶,

Ø conc.: 24 μg/kg, country: Germany⁵¹ *semolina incidence: 1/6*, conc.: 15 µg/kg, country: Germany⁵²⁰, *semolina see also barley, bran (oat), bran (wheat), cereals (breakfast), flour (maize), flour (wheat), food, maize, noodles, oat products, oats, snacks, wheat

Fumonisin B₁

incidence: 1/7, conc.: 1100 $\mu g/kg$, country: Argentina²⁰⁸

incidence: 2/2, conc. range: 170–1230 μ g/kg, \varnothing conc.: 700 μ g/kg, country: Brazil²¹⁵ incidence: 6/8*, conc. range: 43–4036 μ g/kg, \varnothing conc.: 1969.2 μ g/kg, country: Germany²⁷⁴, *and partly from Italy

incidence: 10/13*, conc. range: 6–43 μ g/kg, \varnothing conc.: 15.5 μ g/kg, country: Germany²⁷⁴, *and partly from Italy, France

incidence: 8/8*, conc. range: 420–3760 μg/kg, Ø conc.: 2526.3 μg/kg, country: Italy³⁶², *includes polenta

incidence: 4/6, conc. range: 92–832 μ g/kg, \varnothing conc.: 435 μ g/kg, country: Argentina³⁶⁶ incidence: 2/5*, conc. range: 7–84 μ g/kg, \varnothing conc.: 45.5 μ g/kg, country: Denmark³⁸⁵, *includes one polenta sa

incidence: 3/8*, conc. range: 100–427 µg/kg, \varnothing conc.: 268 µg/kg, country: Uruguay³⁹⁹, *polenta

incidence: 34/55, conc. range: \leq 790 µg/kg, \otimes conc.: 260 µg/kg, country: Switzerland⁴⁰⁰ incidence: 3/15, conc. range: 50–90 µg/kg, \otimes conc.: 60 µg/kg, country: Spain⁴⁰⁴ incidence: 5/5, conc. range: 140–270 µg/kg, \otimes conc.: 196 µg/kg, country: USA⁴¹⁰ incidence: 20/28*, conc. range: \leq 2545 µg/kg, \otimes conc.: 363 µg/kg, country: South Africa⁴¹³, *and USA

incidence: 1/2, conc.: 13.9 μg/kg, country: Germany⁴²⁰

incidence: 10/11*, conc. range: 13.9–1230 μ g/kg, \varnothing conc.: 364.6 μ g/kg, country: Germany⁴²⁰, *semolina

incidence: 27/27*, conc. range: 9–2200 μg/kg, country: Switzerland⁴²³, *and meal incidence: 4/8* **, conc. range: 16–70 μg/kg, Ø conc.: 34 μg/kg, country: Sweden⁶⁸², *imported?, **and flour, gruel

see also arepas, asparagus, barley, batter, beans, beer, bran (maize), bread, cake (rice), cereals, cereals (breakfast), chamomile, chips (maize), chips (tortilla), flakes (corn), flour (maize), food, food (baby), foodstuff, Incaparina, leaves, maize, maize fiber, maize muffin, maize products, maize silk, maize starch, masa, meal (maize), meal (sorghum), milk, muffin mix, nuts (peanut), pancake, popcorn, rapoko, rice, snacks, sorghum, soybeans, syrup (sorghum), tea, tortillas, wheat

Fumonisin B₂

incidence: 1/7, conc.: 425 μg/kg, country: Argentina²⁰⁸

incidence: 2/2, conc. range: 50-300 µg/kg, Ø conc.: 175 μg/kg, country: Brazil²¹⁵ incidence: 3/13*, conc. range: 5.3-21 µg/kg, Ø conc.: 11.2 μg/kg, country: Germany²⁷⁴, *partly from Italy, France incidence: 8/8, conc. range: 80-910 µg/kg, \varnothing conc.: 576.3 µg/kg, country: Italy³⁶² incidence: 4/6, conc. range: 20–324 µg/kg, Ø conc.: 167.5 µg/kg, country: Argentina³⁶⁶ incidence: 1/5*, conc.: 22 μg/kg, country: Denmark³⁸⁵, *includes one polenta sa incidence: 13/55, conc. range: <160 µg/kg, Ø conc.: 100 μg/kg, country: Switzerland⁴⁰⁰ incidence: 4/5, conc. range: 50-110 µg/kg, Ø conc.: 77.5 μg/kg, country: USA⁴¹⁰ incidence: 9/28*, conc. range: ≤1065 µg/kg, Ø conc.: 246.1 μg/kg, country: South Africa⁴¹³, *and USA

Arrica¹¹¹, *and USA incidence: 27/27*, conc. range: 3–590 µg/kg, country: Switzerland⁴²³, *and meal incidence: 1/8* **, conc.: 11 µg/kg, country: Sweden⁶⁸², *imported?, **and flour, gruel see also arepas, asparagus, barley, batter, beer, bran (maize), cereals, cereals (breakfast), chips (maize), chips (tortilla), flakes (corn), flour (maize), food (baby), foodstuff, Incaparina, maize, maize fiber, maize starch, masa, meal (maize), muffin mix, pancake, popcorn, rice, snacks, tortillas, wheat

Fumonisins (B₁, B₂, B₃) incidence: $12/12^*$, conc. range: $\leq 100 \mu g/kg$, country: USA³⁷⁰, *flaking

incidence: 16/20*, conc. range: 16–2124 µg/kg, country: UK³⁸³, *polenta see also bran (maize), cereals (breakfast), flour, flour (maize), germ (maize), grains, maize, maize-based thickeners, popcorn, snacks, tortillas

FUMONISINS

incidence: 3/3* **, conc. range: 3.6–2600 μg/kg, Ø conc.: 869 μg/kg, country: Germany⁵⁶², *unknown origin, **c see also beer, bread, cereal (infant), chips (tortilla), flakes (corn), flour (maize), maize, maize pops cereal, maize products, maize starch, maize (infant cream corn), meal (maize), muffin mix, pasta, popcorn, porridge, products, sorghum, tortillas

HT-2 Toxin

incidence: 3/14*, conc. range: 5–26 µg/kg, Ø conc.: 12 µg/kg, country: Germany⁵¹⁶, *semolina

incidence: 1/6*, conc.: 26 µg/kg, country: Germany⁵²⁰, *semolina see also barley, bran (oat), bran (wheat), bread, cereal (baby), cereals, cereals (breakfast), flakes (oat), flour (maize), flour (wheat), food, food (baby), germ (wheat), groats (oat), maize, noodles, nuts (hazelnut), oat products, oats, products, pumpkin seeds, rye, spices (chilli powder), spices (curry), sunflower seeds, wheat

Moniliformin

incidence: 16/20*, conc. range: ≤135 μg/kg, country: UK⁷⁴³, *polenta see also barley, corn on the cob, flakes (corn), flour (maize), foodstuff, maize, maize-based thickeners, meal (maize), oats, popcorn, rye, snacks, triticale, wheat

Nivalenol

incidence: 1/14*, conc.: 36 μg/kg, country: Germany⁵¹⁶, *semolina incidence: 4/8*, conc. range: 12–46 μg/kg, country: UK⁸³⁶, *polenta see also barley, beer, biscuits, bran (wheat), bread, cake, cereal (baby), cereals,cereals (breakfast), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food,

germ (wheat), grits (wheat), Job's-tears, maize, malt (barley), meal (millet), millet, noodles, oat products, oats, rice, rye, snacks, sorghum, soybeans, spices (chilli sauce), spices (curry), spices (curry paste), spices (curry powder), spices (garlic), spices (ginger), spices (tandoori), wheat

OCHRATOXIN A

incidence: 1/13*, conc.: 0.2 μg/kg, country: Germany⁶⁴⁰, *maize? for children incidence: 6/29*, conc. range: \leq 1.53 μg/kg, \varnothing conc.: 0.204 μg/kg, country: Germany⁶⁹⁰, *polenta

see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, ligourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant

commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

T-2 Toxin

incidence: 2/14*, conc. range: 4–8 μg/kg, Ø conc.: 6 μg/kg, country: Germany⁵¹⁶, *semolina incidence: 1/6*, conc.: 6 μg/kg, country: Germany⁵²⁰, *semolina see also barley, beans, beer, bran (oat), bran (wheat), bread, cereals, cereals (breakfast), flakes (oat), flour, flour (maize), flour (wheat), food, maize, nuts (hazelnut), nuts (peanut), oat products, oats, rice, rye, sorghum, spices (curry), spices (ginger),

ZEARALENONE

incidence: 2/14*, conc. range: 4–8 µg/kg, \varnothing conc.: 6 µg/kg, country: Germany⁵¹⁶, *semolina

spices (tandoori), sunflower seeds, wheat

incidence: 3/6*, conc. range: 2–9 µg/kg, Ø conc.: 5 µg/kg, country: Germany⁵²⁰, *semolina

incidence: 3/3* **, conc. range: 38–90 μg/kg, Ø conc.: 58.3 μg/kg, country: Germany⁵⁶², *unknown origin, **c

incidence:

5/8, conc. range: 8–25 μg/kg (5 sa, with a maximum of 23.4 μg/kg), country: UK⁸³⁶ see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese,

151 Groats (barley)

crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Grits (wheat) may contain the following mycotoxins:

Deoxynivalenol

incidence: 3/3, conc. range: ≤60 µg/kg, country: Germany⁴³² incidence: 1/1* **, conc.: 160 µg/kg, country: Germany⁵⁶², *whole grain, **o see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

Nivalenol

incidence: 1/3, conc.: 40 µg/kg, country: Germany⁴³² see also barley, beer, biscuits, bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), meal (millet), millet, noodles, oat products, oats, rice, rye, snacks, sorghum, soybeans, spices (chilli sauce), spices (curry), spices (curry paste), spices (curry powder), spices (garlic), spices (ginger), spices (tandoori), wheat

Groats (barley) may contain the following mycotoxins:

OCHRATOXIN A

incidence: 21/31, conc. range: <0.95 μg/kg, Ø conc.: 0.094 µg/kg, country: Germany⁶⁹⁰ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, ligourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, Groats (barley) 152

pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Groats (oat) may contain the following mycotoxins:

Deoxynivalenol

incidence: 2/2, conc. range: 59-88 µg/kg, Ø conc.: 74 μg/kg, country: Germany⁵²⁰ see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

HT-2 Toxin

incidence: 2/2, conc. range: 6–9 µg/kg, \varnothing conc.: 8 µg/kg, country: Germany⁵²⁰ see also barley, bran (oat), bran (wheat), bread, cereal (baby), cereals, cereals

(breakfast), flakes (oat), flour (maize), flour (wheat), food, food (baby), germ (wheat), grits (maize), maize, noodles, nuts (hazelnut), oat products, oats, products, pumpkin seeds, rye, spices (chilli powder), spices (curry), sunflower seeds, wheat

Grogannut

see Nuts (grogannut)

Groundnuts

see Nuts (peanut)

Gruel may contain the following mycotoxins:

Aflatoxin B_1

incidence: 1/48*, conc.: 0.252 μg/kg, country: Nigeria³⁶¹, *maize-based see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter),

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nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxin B₂

incidence: 2/48*, conc. range: 0.002-0.056 $\mu g/kg$, \varnothing conc.: 0.029 $\mu g/kg$, country: Nigeria³⁶¹, *maize-based see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg),

spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Aflatoxin G_1

incidence: 2/48*, conc. range: 4.83-19.7 μg/kg, Ø conc.: 12.3 μg/kg, country: Nigeria³⁶¹, *maize-based see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

AFLATOXIN G₂

incidence: 2/48*, conc. range: 0.125–0.263 μg/kg, Ø conc.: 0.203 μg/kg, country: Nigeria³⁶¹, *maize-based see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices

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(cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

AFLATOXIN M₁

incidence: 6/48*, conc. range: 0.007–0.738 μg/kg, Ø conc.: 0.3983 μg/kg, country: Nigeria³⁶¹, *maize-based see also butter, cheese, cheese (blue), ice cream, kidney (poultry), koshk, lactoserum powder, maize, milk, milk packets, milk powder, milk products, milk (buffalo), milk (camel), milk (cow), milk (goat), milk (human breast), milk (raw or dried, for infant formula), milk (sheep), milk (sheep/goat), milk (UHT), milk (whey powder), yogurt

AFLATOXIN M₂

incidence: 1/48*, conc.: 0.184 µg/kg, country: Nigeria³⁶¹, *maize-based see also milk powder, milk (cow), milk (goat), milk (human breast)

OCHRATOXIN A

incidence: 4/48*, conc. range: 0.142-6.516 μg/kg, Ø conc.: 1.913 μg/kg, country: Nigeria³⁶¹, *maize-based see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney

(poultry), knäckebröd, lentils, linseeds, ligourice, ligourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Gruel (oat) may contain the following mycotoxins:

OCHRATOXIN A

incidence: 3/9, conc. range: 0.1–0.3 μg/kg, country: Germany⁶⁴⁰ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes

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(corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine **Ham** may contain the following mycotoxins:

OCHRATOXIN A incidence: 2/22*, conc. range: ≤0.04-0.06 μg/kg, Ø conc.: 0.05 μg/kg, country: Italy³²², *muscle for incidence: 12/30*, conc. range: <28.42 µg/kg,

Ø conc.: 4.06 μg/kg, country: Italy³²², *drv-cured

incidence: 1/12*, conc.: 0.05 µg/kg, country: Italy322, *cooked incidence: 35/42, conc. range: 0.2-2.2 µg/kg, country: Italy³⁹⁴ incidence: 25/30, conc. range: 0.2-2 µg/kg, Ø conc.: 0.75 μg/kg, country: Italy⁴⁸⁵ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder),

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spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Hard Roume cheese

see Cheese

Hare

see Kidney (hare) as well as Liver (hare)

Hatomugi

see Job's-tears

Haverti cheese

see Cheese

HazeInuts

see Nuts (hazelnut)

Herbs and medicinal plants may contain the following mycotoxins:

Aflatoxin B_1 incidence: 9/31, conc. range: 24–105 µg/kg, Ø conc.: 49 µg/kg, country: Egypt162 see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe

deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Herbs and spices may contain the following mycotoxins:

AFLATOXINS (B₁, B₂, G₁, G₂) incidence: $5/41^*$, conc. range: $1-1.9 \mu g/kg$ (1 sa), $2-3.9 \mu g/kg$ (3 sa), $4-10 \mu g/kg$ (1 sa), country: UK¹²², *imported see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (fig), peas,

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phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

Hot dog may contain the following mycotoxins:

Aflatoxin B₁ incidence: 1/25, conc.: 5 μg/kg, country: Egypt¹⁴

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts

(walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxin B₂

incidence: 1/25, conc.: 2 μg/kg, country: Egypt¹⁴

see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Human breast milk 158

Human breast milk

see Milk (human breast)

Ice cream may contain the following mycotoxins:

AFLATOXIN M₁

incidence: 1/5, conc.: 0.25 µg/l, country: France⁸¹

see also butter, cheese, cheese (blue), gruel, kidney (poultry), koshk, lactoserum powder, maize, milk, milk packets, milk powder, milk products, milk (buffalo), milk (camel), milk (cow), milk (goat), milk (human breast), milk (raw or dried, for infant formula), milk (sheep), milk (sheep/goat), milk (UHT), milk (whey powder), yogurt

Incaparina may contain the following mycotoxins:

AFLATOXIN B₁

incidence: $8/8^*$, conc. range: 3–214 µg/kg, \varnothing conc.: 73.9 µg/kg, country: USA⁸²⁴, *and Guatemala

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, jam (bean), Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk

(cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂

incidence: 7/8*, conc. range: 1–32 µg/kg, Ø conc.: 14.9 µg/kg, country: USA⁸²⁴, *and Guatemala

see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans,

159 Injera

spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Aflatoxin G_1

incidence: 1/5, conc.: 7 μg/kg, country: USA⁸²⁴

see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

Fumonisin B₁

incidence: 8/8*, conc. range: 200–1700 µg/kg, Ø conc.: 663 µg/kg, country: USA⁸²⁴, *and Guatemala

see also arepas, asparagus, barley, batter, beans, beer, bran (maize), bread, cake (rice), cereals, cereals (breakfast), chamomile, chips (maize), chips (tortilla), flakes (corn), flour (maize), food, food (baby), foodstuff, grits (maize), leaves, maize, maize fiber, maize muffin, maize products, maize silk, maize starch, masa, meal (maize), meal (sorghum),

milk, muffin mix, nuts (peanut), pancake, popcorn, rapoko, rice, snacks, sorghum, soybeans, syrup (sorghum), tea, tortillas, wheat

Fumonisin B₂

incidence: 4/8*, conc. range: 100–600 μg/kg, Ø conc.: 250 μg/kg, country: USA⁸²⁴, *and Guatemala

see also arepas, asparagus, barley, batter, beer, bran (maize), cereals, cereals (breakfast), chips (maize), chips (tortilla), flakes (corn), flour (maize), food (baby), foodstuff, grits (maize), maize, maize fiber, maize starch, masa, meal (maize), muffin mix, pancake, popcorn, rice, snacks, tortillas, wheat

Fumonisin B₃

incidence: 2/8*, conc. range: 100–200 μg/kg, Ø conc.: 150 μg/kg, country: USA⁸²⁴, *and Guatemala

see also barley, cereal products, cereals, flour (maize), food (baby), maize, meal (maize), pancake, popcorn, rice, snacks

Indian cassia

see Spices (Indian cassia)

Infant cereal foods

see Food (infant)

Infant food

see Food (infant) as well as milk powder

Infant formula

see Milk (raw or dried, for infant formula)

Infulamfula

see Beer

Ingwer

see Spices (ingwer)

Injera may contain the following mycotoxins:

Aflatoxin

incidence: 1/1*, conc.: 4.5 μg/kg, country: Ethopia⁷⁶, *dried

Injera 160

see also barley, beer, bran (rice), flour (maize), jars, kocho, maize, maize roti, malt (barley), malt (maize), nuts (peanut), nuts (peanut butter), nuts (pistachio), oil (peanut), paste (pepper, red), rice, spices (pepper)

Isigatha

see Beer

Jam may contain the following mycotoxins:

OCHRATOXIN A

incidence: 7/12*, conc. range: 0.09-14.33 $\mu g/kg$, \varnothing conc.: 2.51 $\mu g/kg$, country: Germany⁶⁰⁴, *different see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, ligourice, ligourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil

(sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

PATULIN

incidence: 1/18*, conc.: 0.13 μg/kg, country: Italy¹⁰⁵, *and marmelade see also apple cider, apple flavor, apples (stewed fruit), berries (blueberry), berries (lingnonberry), berries (mulberry), berries (raspberry), berries (strawberry), cassava, cheese, food (baby), fruit products, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (pear), fruits (plum), jam (apple), juice, juice (apple), juice (apple-acerola), juice (apple, concentrate), juice (cherry), juice (currant), juice (fruit), juice (grape), juice (orange), juice (peach), juice (pear), must, pulp (plum), syrup (apple), vinegar

Jam (apple) may contain the following mycotoxins:

PATULIN

incidence: 1/2*, conc.: 1,390 μg/kg, country: Finland⁷⁰⁰, *moldy see also apple cider, apple flavor, apples (stewed fruit), berries (blueberry), berries (lingnonberry), berries (mulberry), berries (raspberry), berries (strawberry), cassava, cheese, food (baby), fruit products, fruits (apple), fruits (apricot), fruits (cherry), fruits

161 Jam (bean)

(peach), fruits (pear), fruits (plum), jam, juice, juice (apple), juice (apple-acerola), juice (apple, concentrate), juice (cherry), juice (currant), juice (fruit), juice (grape), juice (orange), juice (peach), juice (pear), must, pulp (plum), syrup (apple), vinegar

Jam (bean) may contain the following mycotoxins:

Aflatoxin B_1

incidence: 1/268, conc.: 0.1 μg/kg, country: Japan⁹⁹

incidence: 5/41*, conc. range: 0.1–0.7 μg/kg, country: Japan¹⁸⁴, *white

incidence: 1/24*, conc.: 0.8 μg/kg, country: Japan¹⁸⁴, *red

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, Job's-tears, jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts

(walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxin B₂

incidence: 1/24*, conc.: 0.1 μg/kg, country: Japan¹⁸⁴, *red

see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Jars may contain the following mycotoxins:

Aflatoxin

incidence: ?/5*, conc. range: ≤10.2 μg/kg, country: Ethopia⁷⁶, *fresh see also barley, beer, bran (rice), flour (maize), injera, kocho, maize, maize roti, malt (barley), malt (maize), nuts (peanut), nuts (peanut butter), nuts (pistachio), oil (peanut), paste (pepper, red), rice, spices (pepper)

Jembe backing flour

see Flour

Job's-tears may contain the following mycotoxins:

AFLATOXIN B₁

incidence: 34/144, conc. range: 0.1–14.9

μg/kg, country: Japan¹⁸⁴ see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), jowar, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts

(grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂

incidence: 34/144, conc. range: tr–1.8 μg/kg, country: Japan¹⁸⁴

see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices

163 Joints

(nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Aflatoxin G_1

incidence: 34/144, conc. range: 0.3–0.7 μ g/kg, country: Japan¹⁸⁴

see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

Deoxynivalenol

incidence: 2/12, conc. range: 48–496 µg/kg, Ø conc.: 272 µg/kg, country: Japan⁵³¹ see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli

powder), spices (coriander), spices (garlic), spices (ginger), wheat

Nivalenol

incidence: 11/12, conc. range: 3–920 μg/kg, Ø conc.: 140 μg/kg, country: Japan⁵³¹ see also barley, beer, biscuits, bran (wheat), bread, cake, cereal (baby), cereals,cereals (breakfast), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, germ (wheat), grits (maize), grits (wheat), maize, malt (barley), meal (millet), millet, noodles, oat products, oats, rice, rye, snacks, sorghum, soybeans, spices (chilli sauce), spices (curry), spices (curry paste), spices (curry powder), spices (garlic), spices (ginger), spices (tandoori), wheat

ZEARALENONE

incidence: 7/7, conc. range: 10-440 µg/kg, Ø conc.: 133 μg/kg, country: Japan⁵³¹ incidence: 8/12, conc. range: 6-116 µg/kg, Ø conc.: 38.8 μg/kg, country: Japan⁵³⁵ see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Joints may contain the following mycotoxins:

Joints 164

OCHRATOXIN A

incidence: 14/40*, conc. range: <0.18 µg/kg, country: Germany⁵⁹⁸, *raw cured see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, ligourice, ligourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic

pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Jowar may contain the following mycotoxins:

Aflatoxin B_1

incidence: 6/15, conc. range: 1-50 µg/kg (1 sa), 51-150 μg/kg (2 sa), 151-300 μg/kg (1 sa), 550 μg/kg (2 sa), country: India¹⁷⁴ see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, juice (apple), juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil

165 Juice (apple)

(peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Juice may contain the following mycotoxins:

PATULIN

incidence: 7/40*, conc. range: 9.3-60 µg/l, Ø conc.: 22.8 μg/kg, country: Ivory Coast²⁷⁹, *apple, annanas, passion fruit, ginger see also apple cider, apple flavor, apples (stewed fruit), berries (blueberry), berries (lingnonberry), berries (mulberry), berries (raspberry), berries (strawberry), cassava, cheese, food (baby), fruit products, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (pear), fruits (plum), jam, jam (apple), juice (apple), juice (apple-acerola), juice (apple, concentrate), juice (cherry), juice (currant), juice (fruit), juice (grape), juice (orange), juice (peach), juice (pear), must, pulp (plum), syrup (apple), vinegar

Juice (apple) may contain the following mycotoxins:

Aflatoxin B₁

incidence: 5/5, conc. range: 20-30 µg/l,

country: Egypt²²⁹

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour,

flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (mango), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN G₁ incidence: 5/5, conc. range: 20-30 µg/l, country: Egypt²²⁹ see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits

Juice (apple) 166

(mango), Ga Kenkey, gruel, Incaparina, Job's-tears, maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cavenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

PATULIN incidence: 45/72, conc. range: ≤115 µg/l, Ø conc.: 56.5 μg/l, country: Canada²⁶ incidence: 7/36*, conc. range: 20-300 µg/l, country: GDR178, *trade incidence: 5/10*, conc. range: 60-50,000 μg/l, country: GDR¹⁷⁸, *moldy incidence: ?/482, conc. range: <5-376 µg/l, country: Turkey²¹⁸ incidence: 2/13, conc. range: 5-10 µg/l, Ø conc.: 7.5 μg/l, country: South Africa²²² incidence: 2/4*, conc. range: 5-45 μg/l, Ø conc.: 25 μg/l, country: South Africa²²², *carbonated incidence: $2/3^*$, conc. range: 5 µg/l, \varnothing conc.: 5 μg/l, country: South Africa²²², *for infants incidence: 27/45, conc. range: 19.1–732.8 μg/l, Ø conc.: 140 μg/l, country: Turkey³¹⁶ incidence: 2/2, conc. range: 120-160 µg/l, Ø conc.: 140 μg/l, country: South Africa³³¹ incidence: 1/1, conc.: 12 µg/l, country: USA⁴⁷⁹ incidence: 29/66*, conc. range: 2.5-27 µg/l, country: Sweden⁴⁸⁴, *and imported incidence: 23/29, conc. range: 2.9-38.8 µg/l, country: Belgium⁶⁷⁷ incidence: 12/14*, conc. range: 2.5-10.6 μg/l, country: Belgium⁶⁷⁷, *imported

incidence: 1/33, conc.: 52 µg/l, country: Germany⁶⁹⁵ incidence: 23/40, conc. range: 10 µg/l (4 sa), $11-50 \mu g/l (8 sa), 51-100 \mu g/l (4 sa), 101-200$ $\mu g/l$ (3 sa), 201–300 $\mu g/l$ (3 sa), 350 $\mu g/l$ (1 sa), country: USA⁶⁹⁶ incidence: 16/16, conc. range: 5-50 µg/l (6 sa), >50 μg/l (2 sa, with a maximum of 646 ug/l), country: Australia⁶⁹⁷ incidence: 140/241*, conc. range: 5-50 µg/l (69 sa), >50 µg/l (71 sa, with a maximum of 1130 μg/l), country: Australia⁶⁹⁷, *and mixed fruit juices incidence: 1/30, conc.: 17 µg/l, country: Brazil⁶⁹⁸ incidence: 8/20*, conc. range: 30–16,400 μg/l, country: Finland⁷⁰⁰, *home-made incidence: 445/609, conc. range: <20 µg/l $(286 \text{ sa}), \le 100 \mu\text{g/l} (122), \le 400 \mu\text{g/l} (37),$ country: GDR⁷⁰² incidence: 10/24*, conc. range: 5-10 µg/l (6 sa), $>10 \mu g/l$ (4 sa, with a maximum of 56 μg/l), country: UK⁷⁰³, *fresh, long life, concentrate, carbonated, organic, regular incidence: 82/100, conc. range: 0.5-10 µg/l (57 sa), $>10-20 \mu\text{g/l}$ (10 sa), $>20-30 \mu\text{g/l}$ (5 sa), $>40-50 \mu\text{g/l}$ (3 sa), $>50-60 \mu\text{g/l}$ (4 sa), >60-70 µg/l (1 sa), 100 µg/l (2 sa, with a maximum of 170 μg/l), country: Spain⁷⁰⁴ incidence: 10/10, conc. range: 5.7-26 µg/l, country: Germany⁷⁰⁵ incidence: 2/2*, conc. range: 11.4-23.9 µg/l, Ø conc.: 17.7 μg/l, country: Germany⁷⁰⁵, *home-made incidence: 1/1, conc.: 1000 µg/l, country: Canada⁷⁰⁶ incidence: 6/10, conc. range: 9.8-107.2 µg/l, Ø conc.: 36 μg/l, country: Taiwan⁷⁰⁷ incidence: 140/140, conc. range: <1-220 μg/l, country: Norway⁷⁰⁸ incidence: 8/13, conc. range: 44-309 µg/l, country: USA⁷⁰⁹ incidence: 74/113, conc. range: 5-629 µg/l, country: Australia⁷¹⁰ incidence: 3/20, conc. range: 106-216 µg/l, Ø conc.: 152 μg/l, country: New Zealand⁷¹² incidence: 12/30, conc. range: 3.2-106.9 µg/l,

Ø conc.: 35 μg/l, country: Turkey⁷¹⁹

167 Juice (apple, concentrate)

incidence: 4/15, conc. range: 125–439 μg/l, country: Belgium⁷²²

incidence: 15/76, conc. range: 6.4–77.5 μg/l, country: Brazil⁷²⁶

incidence: 21/49*, conc. range: 10–49 μg/l (14 sa), 50–99 μg/l (5 sa), 150–199 μg/l (1 sa), 434 μg/l (1 sa), country: UK⁷²⁷, *directly produced

incidence: 1*/11**, conc.: $10 \mu g/l$, country: UK⁷³⁰, *with blackcurrant, **and orange incidence: 26/76*, conc. range: $10-24 \mu g/l$ (19 sa), $50-99 \mu g/l$ (5 sa), $>100 \mu g/l$ (2 sa, with a maximum of $118 \mu g/l$), country: UK⁷³¹, *cloudy

incidence: 38/113*, conc. range: 10–24 μg/l (29 sa), 25–49 μg/l (5 sa), 50–99 μg/l (2 sa), >100 μg/l (2 sa, with a maximum of 497 μg/l), country: UK⁷³¹, *directly produced incidence: 13/55*, conc. range: 10–24 μg/l (10 sa), 24–49 μg/l (2 sa), 50 μg/l (1 sa), country: UK⁷³¹, *clear

incidence: 65/185*, conc. range: 10–24 μg/l (39 sa), 25–49 μg/l (15 sa), 50–99 μg/l (7 sa), >100 μg/l (4 sa, with a maximum of 490 μg/l), country: UK⁷³⁶, *cloudy

incidence: $62/173^*$, conc. range: 10– $49 \mu g/l$ (58 sa), >50 $\mu g/l$ (4 sa, with a maximum of $184 \mu g/l$), country: UK^{741} , *directly produced and one concentrate

incidence: 110/199*, conc. range: 5–15 μ g/l (55 sa), 15–50 μ g/l (50 sa), >50 μ g/l (5 sa, with a maximum of 171 μ g/l), country: UK⁷⁴⁴, *directly produced

incidence: $6/20^*$, conc. range: $1-1200 \mu g/l$, \varnothing conc.: $200 \mu g/l$, country: France⁸⁵³, *industrial

see also apple cider, apple flavor, apples (stewed fruit), berries (blueberry), berries (lingnonberry), berries (mulberry), berries (raspberry), berries (strawberry), cassava, cheese, food (baby), fruit products, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (pear), fruits (plum), jam, jam (apple), juice, juice (apple-acerola), juice (apple, concentrate), juice (cherry), juice (currant), juice (fruit), juice (grape), juice (orange), juice (peach), juice (pear), must, pulp (plum), syrup (apple), vinegar

Juice (apple-acerola) may contain the following mycotoxins:

PATULIN

incidence: 1/1, conc.: 0.7 μg/l, country: Germany⁷⁰⁵ see also apple cider, apple flavor, apples (stewed fruit), berries (blueberry), berries (lingnonberry), berries (mulberry), berries (raspberry), berries (strawberry), cassava, cheese, food (baby), fruit products, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (pear), fruits (plum), jam, jam (apple), juice, juice (apple), juice (apple, concentrate), juice (cherry), juice (currant), juice (fruit), juice (grape), juice (orange), juice (peach), juice (pear), must, pulp

Juice (apple, concentrate) may contain the following mycotoxins:

(plum), syrup (apple), vinegar

ALTERNARIOL

incidence: 16/32, conc. range: 1.35–5.42 µg/l, country: Spain²⁸⁶ see also bran, fruits (apple), juice (mandarin fruit), olives, spices (pepper), sunflower seeds, tomatoes, wheat

ALTERNARIOL METHYL ETHER incidence: 16/32, conc. range: tr–1.71* μg/l, country: Spain²⁸⁶, *only in one sa see also barley, bran, fruits (apple), fruits (mandarin fruit), fruits (melon), olives, ragi, sorghum, spices (pepper), sunflower seeds, tomatoes, wheat

PATULIN

incidence: 215/2151, conc. range: 7–50 µg/l (117 sa), >50 µg/l (98 sa, with a maximum of 376 µg/l), country: Turkey⁶⁹⁹ incidence: 13/64*, conc. range: 50–690 µg/l, country: Finland⁷⁰⁰, *imported incidence: 2/7, conc. range: 460–1770 µg/l, \varnothing conc.: 1115 µg/kg, country: Finland⁷⁰⁰ incidence: 44?/44, conc. range: 5–75.4 µg/kg, country: Turkey⁷²⁵ incidence: 14/45, conc. range: 10–49 µg/l (13 sa), 118 µg/l (1 sa), country: UK⁷²⁷

incidence: 38/101, conc. range: 5–15 μg/l (35 sa), >15 μg/l (3 sa, with a maximum of 30 μg/l), country: UK⁷⁴⁴ see also apple cider, apple flavor, apples (stewed fruit), berries (blueberry), berries (lingnonberry), berries (mulberry), berries (raspberry), berries (strawberry), cassava, cheese, food (baby), fruit products, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (pear), fruits (plum), jam, jam (apple), juice, juice (apple), juice (apple-acerola), juice (cherry), juice (currant), juice (fruit), juice (grape), juice (orange), juice (peach), juice (pear), must, pulp (plum), syrup (apple), vinegar

Juice (carrot) may contain the following mycotoxins:

OCHRATOXIN A

incidence: 1/18*, conc.: 0.01 µg/l, country: Germany⁶³⁹, *and from different countries see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow),

milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

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Juice (cherry) may contain the following mycotoxins:

PATULIN

incidence: 1/1*, conc.: 0.2 μg/l, country: Germany⁷⁰⁵, *sour see also apple cider, apple flavor, apples (stewed fruit), berries (blueberry), berries (lingnonberry), berries (mulberry), berries (raspberry), berries (strawberry), cassava, cheese, food (baby), fruit products, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (pear), fruits (plum), jam, jam (apple), juice, juice (apple), juice (apple-acerola), juice (apple, concentrate), juice (currant), juice (fruit), juice (grape), juice (orange), juice (peach), juice (pear), must, pulp (plum), syrup (apple), vinegar

Juice (currant) may contain the following mycotoxins:

Ochratoxin A

incidence: 3/19* **, conc. range: ≤0.06 μg/l, country: Germany⁶³⁹, *and from different countries, **black

169 Juice (fruit)

see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices

(tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

PATULIN

incidence: 1/1*, conc.: 0.1 µg/l, country: Germany⁷⁰⁵, *black see also apple cider, apple flavor, apples (stewed fruit), berries (blueberry), berries (lingnonberry), berries (mulberry), berries (raspberry), berries (strawberry), cassava, cheese, food (baby), fruit products, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (pear), fruits (plum), jam, jam (apple), juice, juice (apple), juice (apple-acerola), juice (apple, concentrate), juice (cherry), juice (fruit), juice (grape), juice (orange), juice (peach), juice (pear), must, pulp (plum), syrup (apple), vinegar

Juice (fruit) may contain the following mycotoxins:

OCHRATOXIN A

incidence: 1/14, conc.: 1.16 μg/l, country: Morocco²²⁸

see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver

Juice (fruit)

(cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

PATULIN

incidence: $2/6^*$, conc. range: 5 µg/l, \varnothing conc.: 5 μg/kg, country: South Africa²²², *mixed incidence: 4/7* **, conc. range: 5-20 µg/l, Ø conc.: 13.75 μg/kg, country: South Africa²²², *mixed, **for infants see also apple cider, apple flavor, apples (stewed fruit), berries (blueberry), berries (lingnonberry), berries (mulberry), berries (raspberry), berries (strawberry), cassava, cheese, food (baby), fruit products, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (pear), fruits (plum), jam, jam (apple), juice, juice (apple), juice (apple-acerola), juice (apple, concentrate), juice (cherry), juice (currant), juice (grape), juice (orange), juice (peach), juice (pear), must, pulp (plum), syrup (apple), vinegar

Juice (grape) may contain the following mycotoxins:

OCHRATOXIN A

incidence: 7/7*, conc. range: 0.0016-0.0647 $\mu g/l$, \varnothing conc.: 0.0258 $\mu g/kg$, country: Poland²⁵⁰, *and drinks incidence: 34/48, conc. range: 0.0212-0.1 μg/l, country: Brazil²⁶⁰ incidence: 19/20* **, conc. range: 0.01-0.19 $\mu g/l$ (9 sa), 0.41-1 $\mu g/l$ (7 sa), 1.1-2 $\mu g/l$ (2 sa), 2.05 μg/l (1 sa), country: UK⁶³⁸, *red and white, **from different countries incidence: 21/27* **, conc. range: <1.3 µg/l, country: Germany⁶³⁹, *and from different countries, **white incidence: $56/64^*$ **, conc. range: $\leq 5.3 \mu g/l$, country: Germany⁶³⁹, *and from different countries, **red incidence: 4/25* **, conc. range: <0.008-0.071 μg/l, country: Canada⁶⁷⁶, *and from USA, **white incidence: 5/45* **, conc. range: <0.008–0.104 μg/l, country: Canada⁶⁷⁶, *and from USA, **red incidence: 8?/11***, conc. range: ≤ 0.311 μg/l, country: Switzerland⁶⁹¹, *and from different countries, **red and white incidence: 1/6* **, conc.: 0.73 µg/l, country: Germany⁸⁵⁵, *and from different countries, **white incidence: $12/14^*$ **, conc. range: $\leq 4.7 \mu g/l$, country: Germany⁸⁵⁵, *and from different countries, **red see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck,

extrudates, figs, fish, flakes (cereal), flakes

(cassava), flour (maize), flour (rye), flour

(wheat), food, food (baby), food (infant),

fruits, fruits (apple), fruits (apricot), fruits

(corn), flakes (oat), flakes (wheat), flour, flour

171 Juice (mango)

(cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

PATULIN

incidence: 2/2, conc. range: 4.9–5.2 µg/l, Ø conc.: 5.1 µg/l, country: Germany⁷⁰⁵ see also apple cider, apple flavor, apples (stewed fruit), berries (blueberry), berries (lingnonberry), berries (mulberry), berries (raspberry), berries (strawberry), cassava, cheese, food (baby), fruit products, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (pear), fruits (plum), jam, jam (apple), juice, juice (apple), juice (apple-acerola), juice (cherry), juice (fruit), juice (orange), juice (peach), juice (pear), must, pulp (plum), syrup (apple), vinegar

Juice (mango) may contain the following mycotoxins:

AFLATOXIN B₁ incidence: 2/5, conc. range: 12 µg/l, country: Egypt²²⁹ see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices

Juice (mango) 172

(chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Juice (orange) may contain the following mycotoxins:

Patulin

incidence: 1/1, conc.: 0.1 μg/l, country: Germany⁷⁰⁵

see also apple cider, apple flavor, apples (stewed fruit), berries (blueberry), berries (lingnonberry), berries (mulberry), berries (raspberry), berries (strawberry), cassava, cheese, food (baby), fruit products, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (pear), fruits (plum), jam, jam (apple), juice, juice (apple), juice (apple-acerola), juice (apple, concentrate), juice (cherry), juice (currant), juice (fruit), juice (grape), juice (peach), juice (pear), must, pulp (plum), syrup (apple), vinegar

Juice (peach) may contain the following mycotoxins:

PATULIN

incidence: 11/25, conc. range: 4.3–93.2 µg/l, Ø conc.: 42 µg/l, country: Turkey⁷¹⁹ see also apple cider, apple flavor, apples (stewed fruit), berries (blueberry), berries (lingnonberry), berries (mulberry), berries (raspberry), berries (strawberry), cassava, cheese, food (baby), fruit products, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (pear), fruits (plum), jam, jam (apple), juice, juice (apple), juice (apple-acerola), juice (apple, concentrate), juice (cherry), juice (currant), juice (fruit), juice (grape), juice (orange), juice (pear), must, pulp (plum), syrup (apple), vinegar

Juice (pear) may contain the following mycotoxins:

PATULIN

incidence: 1/4, conc.: 24 μg/l, country: Germany⁶⁹⁵

see also apple cider, apple flavor, apples (stewed fruit), berries (blueberry), berries (lingnonberry), berries (mulberry), berries (raspberry), berries (strawberry), cassava, cheese, food (baby), fruit products, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (pear), fruits (plum), jam, jam (apple), juice, juice (apple), juice (apple-acerola), juice (apple, concentrate), juice (cherry), juice (currant), juice (fruit), juice (grape), juice (orange), juice (peach), must, pulp (plum), syrup (apple), vinegar

Juice (tomato) may contain the following mycotoxins:

OCHRATOXIN A

incidence: $3/30^*$, conc. range: $\le 0.032 \, \mu g/l$, country: Germany⁶³⁹, *and from different countries

see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rve), meal (spelt),

173 Kidney (hare)

meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Kariesh cheese

see Cheese

Kashar cheese

see Cheese

Ketchup

see Tomato ketchup

Kheri may contain the following mycotoxins:

Aflatoxin B₁

incidence: 13/18, conc. range: 52–738 μg/kg,

country: India³⁹⁸ see also acha, areca n

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat),

food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Kidney (hare) may contain the following mycotoxins:

AFLATOXIN B₁ incidence: $94/168^*$, conc. range: 0.3-3.21 µg/kg, \varnothing conc.: 0.658 µg/kg, country: Czechoslovakia³¹, *wild

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see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Kidney (pheasant) may contain the following mycotoxins:

AFLATOXIN B_1 incidence: 79/94, conc. range: 0.3–1.67 μg/kg, \varnothing conc.: 0.679 μg/kg, country: Czechoslovakia³¹

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger),

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spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Kidney (pig) may contain the following mycotoxins:

OCHRATOXIN A

incidence: 3/300*, conc. range: 0.4-1.4 µg/kg, \emptyset conc.: 0.79 µg/kg, country: France²³⁴, *normal incidence: 238/710*, conc. range: 0.17-5 μg/kg, country: France²³⁴, *normal incidence: 6/100*, conc. range: 0.16-0.48 μg/kg, country: France²³⁴, *suspected incidence: 52*/214,700**, conc. range: 1-<2 μg/kg (27 sa), 2-10 μg/kg (25 sa), country: Poland⁵⁶⁰, *suspected, **swine incidence: 136/378, conc. range: 0.5-<1 µg/kg (53 sa), 1– $<5 \mu g/kg (68 \text{ sa})$, 5– $<10 \mu g/kg (10 \text{ sa})$ sa), >10 μ g/kg (5 sa), country: UK⁵⁷⁵ incidence: 22/104*, conc. range: 0.1-1.8 $\mu g/kg$, \varnothing conc.: 0.45 $\mu g/kg$, country: Germany⁵⁷⁷, *suspected incidence: 20/20* **, conc. range: 0.2-195.5 $\mu g/kg$, \varnothing conc.: 34.2 $\mu g/kg$, country: Germany⁵⁷⁷, *from Denmark, **suspected incidence: 11/36, conc. range: 0.1-0.2 µg/kg (10 sa), 0.3 μg/kg (1 sa), country: Switzerland⁵⁷⁸ incidence: 4498/7639*, conc. range: >25 $\mu g/kg$ (4293 sa), >150 $\mu g/kg$ (205 sa), country: Denmark⁵⁸³, *suspected incidence: 41(82?)/52(104?), conc. range: $<3.18 \mu g/kg$, \varnothing conc.: 0.54 $\mu g/kg$, country: Romania⁵⁸⁶ incidence: 21/71*, conc. range: 1-5 μg/kg (18 sa), 5–20 μg/kg (3 sa), country: Czechoslovakia⁵⁹⁵, *suspected incidence: 27/61, conc. range: ≤9.33 µg/kg, country: Germany⁵⁹⁸ incidence: 27/113*, conc. range: tr-23 μg/kg, country: Poland⁶²¹, *suspected incidence: 284(pairs)/300(pairs), conc. range: 0.02-0.06 µg/kg (54 sa), 0.06-0.09 µg/kg (27 sa), 0.09–0.5 µg/kg (140 sa), 0.5–1 µg/kg (39

sa), $>1 \mu g/kg$ (24 sa, with a maximum of 15 $\mu g/kg$), \varnothing conc.: 0.5 $\mu g/kg^*$, country: Denmark⁶²⁶, *arithmetic mean incidence: 21/60*, conc. range: 2-68 µg/kg, country: Denmark⁶²⁸, *suspected incidence: 15/104*, conc. range: 1-5 µg/kg (12 sa), 5.1–10 μg/kg (3 sa, with a maximum of 9.3 µg/kg), country: UK⁶³⁶, *and from different countries incidence: 112/303*, conc. range: 0.5-<5 μg/kg (104 samples), 5–<10 μg/kg (6 sa), 11.5 μg/kg (1 sa), 12.4 μg/kg (1 sa), country: UK⁶⁴⁶, *unsuitable for human consumption incidence: 68/385*, conc. range: 0.2-12 μg/kg, country: Belgium⁶⁵⁸, *suspected incidence: 32/129, conc. range: $\geq 2-<5 \mu g/kg$ $(25 \text{ sa}), \le 5 - < 10 \mu \text{g/kg} (2 \text{ sa}), \le 10 - \le 104$ μg/kg (5 sa), country: Sweden⁶⁵⁹ incidence: 10/193*, conc. range: <0.1-5 μg/kg, country: Finland⁶⁸⁷, * and suspected incidence: 42/150*, conc. range: 12.4-40.6 $\mu g/kg$, \varnothing conc.: 21.3 $\mu g/kg$, country: Egypt⁷²¹, *probably pig incidence: 35/85, conc. range: \leq 3.1 µg/kg, country: Poland724 incidence: 2/12*, conc. range: 4-112.7 µg/kg, Ø conc.: 46.1 μg/kg, country: Belgium⁷⁵¹, *from Denmark see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape),

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juice (tomato), kidney (poultry), knäckebröd, lentils, linseeds, ligourice, ligourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Kidney (poultry) may contain the following mycotoxins:

Aflatoxin M_1

incidence: 1/43, conc.: <0.1 μg/kg, country: Brazil²⁷⁵

see also butter, cheese, cheese (blue), gruel, ice cream, koshk, lactoserum powder, maize, milk, milk packets, milk powder, milk products, milk (buffalo), milk (camel), milk (cow), milk (goat), milk (human breast), milk (raw or dried, for infant formula), milk (sheep), milk (sheep/goat), milk (UHT), milk (whey powder), yogurt

OCHRATOXIN A incidence: 5(10?)/14(28?)*, conc. range: 4.3–29.2 µg/kg, country: Denmark⁵⁹¹, *suspected

see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower

177 Knäckebröd

seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Kidney (roe deer) may contain the following mycotoxins:

AFLATOXIN B₁

incidence: 39/56, conc. range: 0.3–1.93 μ g/kg, \varnothing conc.: 0.795 μ g/kg, country:

Czechoslovakia31

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, Verweis>congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi),

spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Knäckebröd may contain the following mycotoxins:

Deoxynivalenol

incidence: 1/1*, conc.: 10-30 μg/kg, country: Germany⁴³², *wheat see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

OCHRATOXIN A

incidence: 33/47, conc. range: 0.1–0.19 µg/kg (5 sa), 0.2–0.49 µg/kg (11 sa), 0.5–1.49 µg/kg (13 sa), 1.5–9.99 µg/kg (4 sa), country: Germany 623

incidence: 6/46, conc. range: 0.2–0.9 μg/kg, country: Germany⁶⁴⁰

incidence: 62/87, conc. range: \leq 0.437 µg/kg, \varnothing conc.: 0.076 µg/kg, country: Germany⁶⁹⁰ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken

Knäckebröd 178

muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Kocho may contain the following mycotoxins:

Aflatoxin

incidence: ?/2, conc.: \leq 2.3 µg/kg, country: Ethopia⁷⁶

see also barley, beer, bran (rice), flour (maize), injera, jars, maize, maize roti, malt (barley), malt (maize), nuts (peanut), nuts (peanut butter), nuts (pistachio), oil (peanut), paste (pepper, red), rice, spices (pepper)

Kokonte

see Cassava

Koshk may contain the following mycotoxins:

AFLATOXIN M₁

incidence: 1/1*, conc.: 0.19 μg/kg, country: Svria⁶⁸

see also butter, cheese, cheese (blue), gruel, ice cream, kidney (poultry), lactoserum powder, maize, milk, milk packets, milk powder, milk products, milk (buffalo), milk (camel), milk (cow), milk (goat), milk (human breast), milk (raw or dried, for infant formula), milk (sheep), milk (sheep/goat), milk (UHT), milk (whey powder), yogurt

Kubeba may contain the following mycotoxins:

Aflatoxin B_1

incidence: 1/25, conc.: 150 μg/kg, country: Egypt¹⁴

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and

179 Leaves

medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂

incidence: 1/25, conc.: 25 μg/kg, country: Egypt¹⁴

see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, maize, maize and beans, maize dough, maize

products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Lactoserum powder may contain the following mycotoxins:

AFLATOXIN M₁

incidence: 6/22, conc. range: \leq 0.55 µg/kg, country: France⁸¹

see also butter, cheese, cheese (blue), gruel, ice cream, kidney (poultry), koshk, maize, milk, milk packets, milk powder, milk products, milk (buffalo), milk (camel), milk (cow), milk (goat), milk (human breast), milk (raw or dried, for infant formula), milk (sheep), milk (sheep/goat), milk (UHT), milk (whey powder), yogurt

Lancashire cheese

see Cheese

Leaf-sauces

see Sauce (leaf)

Leaves may contain the following mycotoxins:

Fumonisin B₁

incidence: 12/18*, conc. range: 350–700 μg/kg, country: Portugal³¹⁰, *of orange tree incidence: 12/18, conc. range: 20–200 μg/kg, country: Portugal³¹⁰, *or flowers of linden

Leaves 180

see also arepas, asparagus, barley, batter, beans, beer, bran (maize), bread, cake (rice), cereals, cereals (breakfast), chamomile, chips (maize), chips (tortilla), flakes (corn), flour (maize), food, food (baby), foodstuff, grits (maize), Incaparina, maize, maize fiber, maize muffin, maize products, maize silk, maize starch, masa, meal (maize), meal (sorghum), milk, muffin mix, nuts (peanut), pancake, popcorn, rapoko, rice, snacks, sorghum, soybeans, syrup (sorghum), tea, tortillas, wheat

Legume may contain the following mycotoxins:

Aflatoxin B_1

incidence: 6/108* **, conc. range: ≤3 µg/kg, country: USSR¹⁹¹, *imported, **soybean, kidney bean and pea

kidney bean and pea incidence: 2/30, conc. range: 1-3.6 µg/kg, Ø conc.: 2.3 μg/kg, country: Colombia²⁹⁶ incidence: 1/103*, conc.: 0.84 µg/kg, country: Germany⁶⁹⁰, *peas, lentils, beans incidence: 19/94, conc. range: 1-2672 µg/kg, Ø conc.: 825.7 μg/kg, country: USA⁸⁷³ see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meiu, melon seeds, milk products, milk (buffalo), milk (camel), milk

(cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Leguminous trees

see Legume

Leicester cheese

see Cheese

Lemon

see Fruits (lemon)

Lentils may contain the following mycotoxins:

AFLATOXIN B₁

incidence: 1/6, conc.: 3.1 μg/kg, country:

Egypt

incidence: 1/2*, conc.: 1.8 μg/kg, country:

Syria⁶⁸, *ground

incidence: 1/4, conc.: 72.1 µg/kg, country:

Egypt¹⁴⁴

incidence: 13/23, conc. range: 45-268 µg/kg,

country: India³⁹⁸

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals,

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cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXINS (B_1, B_2, G_1, G_2) incidence: 1/13, conc.: 14.3 µg/kg, country: Sudan³¹⁴

see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (fig), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

OCHRATOXIN A

incidence: 2/10, conc. range: 0.1–0.19 μg/kg,

country: Germany⁶²³ incidence: 1/14, conc.: 0.3 μg/kg, country:

Germany⁶⁴⁰

see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, linseeds, ligourice, ligourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver

Lentils 182

(turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Libritos may contain the following mycotoxins:

Deoxynivalenol

incidence: 4/4, conc. range: 210-1023 µg/kg, country: Argentina⁵⁰⁵ see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli

powder), spices (coriander), spices (garlic), spices (ginger), wheat

Lima beans

see Beans

Lingonberries

see Berries (lingonberry)

Linseeds may contain the following mycotoxins:

Aflatoxin B₁

incidence: 15/48, conc. range: 16-875 µg/kg, country: India398

incidence: 46/105, conc. range: 120-810

μg/kg, country: India⁸⁷²

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts

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(walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

OCHRATOXIN A

incidence: 12/34, conc. range: \leq 1.79 µg/kg, country: Germany⁵⁹²

incidence: 1/21, conc.: 0.2 μg/kg, country: Germany⁶⁴⁰

see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize),

meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Liquorice may contain the following mycotoxins:

OCHRATOXIN A

incidence: 1/15* **, conc.: 0.3 μg/kg, country: Germany³¹¹, *peeled, **imported? incidence: 6/6* **, conc. range: 0.3–12.5 μg/kg, country: Germany³¹¹, *unpeeled, **imported? incidence: 14/15*, conc. range: 0.46-46.2 μg/kg, country: Germany³¹¹, *commodities incidence: 10/11*, conc. range: 0.68–2.59 μg/kg, country: Germany³¹¹, *pastile incidence: 18/19* **, conc. range: 0.4–3 μg/kg, Ø conc.: 1.3 μg/kg, country: Germany⁵⁸², *sweet, **from drugstores, grocer's shops, health food shops, retail shops see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat,

Liquorice 184

butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liquerice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Liquorice root may contain the following mycotoxins:

OCHRATOXIN A

incidence: 9/19*, conc. range: 0.3-216.5 $\mu g/kg$, \varnothing conc.: 29.8 $\mu g/kg$, country: Germany⁵⁸², *from drugstores, health food shops, herb shop, pharmacies see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, ligourice, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, sovbeans, spelt, spice powder, spices (cardamom), spices (chilli),

185 Liver (duck)

spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Liver (cow) may contain the following mycotoxins:

OCHRATOXIN A

incidence: 1/50, conc.: 14.4 μg/kg, country: Egypt⁷²¹

see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut),

nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Liver (duck) may contain the following mycotoxins:

OCHRATOXIN A

incidence: 4/7, conc. range: ≤0.16 µg/kg, Ø conc.: 0.06 μg/kg, country: Denmark⁶²⁴ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney

Liver (duck) 186

(poultry), knäckebröd, lentils, linseeds, ligourice, ligourice root, liver (cow), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Liver (goose) may contain the following mycotoxins:

OCHRATOXIN A

incidence: 4/12, conc. range: ≤0.06 μg/kg, Ø conc.: 0.02 μg/kg, country: Denmark⁶²⁴ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs,

fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Liver (hare) may contain the following mycotoxins:

AFLATOXIN B₁ incidence: 89/168*, conc. range: 0.3–1.421 μ g/kg, \varnothing conc.: 0.407 μ g/kg, country: Czechoslovakia³¹, *wild

187 Liver (pheasant)

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (pheasant), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Liver (pheasant) may contain the following mycotoxins:

AFLATOXIN B₁ incidence: 56/94, conc. range: 0.3–0.985 $\mu g/kg$, \varnothing conc.: 0.329 $\mu g/kg$, country:

Czechoslovakia31

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pig), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger),

Liver (pheasant) 188

spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Liver (pig) may contain the following mycotoxins:

AFLATOXIN B_1 incidence: 1/43, conc.: 27 μ g/kg, country: Brazil²⁷⁵

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (roe deer), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages,

sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

OCHRATOXIN A

incidence: 39/52, conc. range: \leq 0.61 µg/kg, \varnothing conc.: 0.16 µg/kg, country: Romania⁵⁸⁶ incidence: 10/59, conc. range: ≤2.72 µg/kg, country: Germany⁵⁹⁸ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut),

189 Liver (turkey)

nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Liver (roe deer) may contain the following mycotoxins:

Aflatoxin B_1

incidence: 38/56, conc. range: 0.3–2.17 μ g/kg, \varnothing conc.: 0.696 μ g/kg, country:

Czechoslovakia31

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, Verweis>congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), maize, maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal

(cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Liver (turkey) may contain the following mycotoxins:

OCHRATOXIN A

incidence: 3/17, conc. range: ≤0.28 μg/kg, Ø conc.: 0.04 μg/kg, country: Denmark⁶²⁴ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour Liver (turkey) 190

(rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, ligourice, ligourice root, liver (cow), liver (duck), liver (goose), liver (pig), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Luncheon

see Meat (luncheon)

Macaroni

see Noodles

Maize may contain the following mycotoxins:

AFLATOXIN B₁ incidence: 980/2074, conc. range: >5-666 μg/kg, country: India16 incidence: 3/38, conc. range: 48-62 µg/kg, country: Tunisia20 incidence: 3/3*, conc. range: 30-1477 µg/kg, country: Canada³⁸, *ncac incidence: 147?/630, conc. range: 1–10 µg/kg (22 sa), $>10-20 \mu\text{g/kg}$ (19 sa), $>20-50 \mu\text{g/kg}$ (53 sa), $>50-100 \mu\text{g/kg} (42 \text{ sa})$, >100-500 $\mu g/kg$ (8 sa), >500–2000 $\mu g/kg$ (3 sa), >2000 μg/kg (1 sa), country: Cuba⁴⁷ incidence: 36/41, conc. range: 5.3-465.31 μg/kg, Ø conc.: 84.2 μg/kg, country: Mexico⁴⁸ incidence: 1/6, conc.: 2.6 µg/kg, country: Egypt⁶² incidence: 1*/3, conc.: 25 μg/kg, country: Germany⁶⁷, *moldy incidence: 187/238*, conc. range: 1->1000 μg/kg, country: USA⁶⁹, *ncac incidence: 3/3*, conc. range: 9.25-41.5 μg/kg, \emptyset conc.: 22.9 µg/kg, country: UK⁷⁰, *ncac incidence: 2/170, conc. range: 1 µg/kg, country: Cyprus⁷⁴ incidence: 3/3, conc. range: 8.8–37.5 µg/kg, Ø conc.: 21.8 µg/kg, country: Nepal⁹² incidence: 6/6, conc. range: tr-15,600 μg/kg, country: India97 incidence: 1/1*, conc.: 13.8 μg/kg, country: USA100, *ncac incidence: 37/214*, conc. range: <5 μg/kg (7 sa), 6–10 μg/kg (15 sa), 11–20 μg/kg (11 sa), 21–40 μg/kg (3 sa), 56 μg/kg (1 sa), country: USA111, *ncac incidence: 152/297*, conc. range: <9 µg/kg (21 sa), 10–19 μg/kg (37 sa), 20–39 μg/kg (38 sa), 40-79 µg/kg (27 sa), 80-159 µg/kg (18 sa), 160–319 μg/kg (7 sa), 320–639 μg/kg (3 sa), >640 μg/kg (1 sa), country: USA¹¹², *ncac incidence: 37/40*, conc. range: 0.1-203 µg/kg, Ø conc.: 36.8 μg/kg, country: USA¹²⁴, *ncac incidence: 3/30*, conc. range: 22–50 μg/kg, Ø conc.: 34 µg/kg, country: Argentina¹³², *ncac incidence: 2/16*, conc. range: 378.8-612.1 μg/kg, Ø conc.: 495.5 μg/kg, country: Egypt¹⁴⁴, *yellow incidence: 4/49*, conc. range: 1429.1–10,450 $\mu g/kg$, \varnothing conc.: 5647.4 $\mu g/kg$, country: Egypt¹⁴⁴, *white

incidence: 10/10*, conc. range: 7-422 µg/kg, incidence: 33/38*, conc. range: 18–1600 Ø conc.: 156.9 μg/kg, country: USA¹⁴⁷, *ncac $\mu g/kg$, \varnothing conc.: 451.6 $\mu g/kg$, country: incidence: 8/8* **, conc. range: 210-3200 Brazil³²³, *ncac μg/kg, Ø conc.: 891.25 μg/kg, country: incidence: 42/60, conc. range: 1-19 µg/kg (2 USA¹⁶⁵, *ground, **ncac sa), 20-80 µg/kg (3 sa), 81-120 µg/kg (12 sa), incidence: 21/60, conc. range: 4–308 μg/kg, Ø 121-250 μg/kg (8 sa), 251-500 μg/kg (8 sa), conc.: 58.57 µg/kg, country: USA¹⁶⁶ $501-1000 \mu g/kg (7 sa), >1000 \mu g/kg (2 sa),$ incidence: 6/15, conc. range: 1-50 μg/kg (3 country: India388 sa), 51–150 μg/kg (2 sa), 680 μg/kg (1 sa), incidence: 76/76, conc. range: 66-2163 µg/kg, country: India174 country: India398 incidence: 2/161, conc. range: 0.1 µg/kg, incidence: 11/16, conc. range: 4-428 µg/kg, Ø country: Japan 184 conc.: 102 µg/kg, country: Indonesia⁴²⁶ incidence: 16/567*, conc. range: 20-350 incidence: 107/246, conc. range: tr-12 µg/kg, μg/kg, country: Taiwan¹⁸⁹, *from USA country: China⁴⁷⁵ incidence: 158/162*, conc. range: 500-1200 incidence: 15/99* ** ***, conc. range: 0.1-1.5 μg/kg, country: Taiwan¹⁸⁹, *from Thailand μg/kg, country: Switzerland⁵⁰², *imported, incidence: 39/214*, conc. range: ≤155 μg/kg, **and products, ***ncac country: USSR¹⁹¹, *imported incidence: 10/10, conc. range: <1.5-20 µg/kg, incidence: 6/100, conc. range: <600 µg/kg, country: Côte d'Ivoire⁵⁵⁷ country: USSR191 incidence: 12/12*, conc. range: 50-930 μg/kg, incidence: 30/35*, conc. range: 0.11–4030 country: India⁷²⁰, *ah μg/kg, country: India¹⁹², *ncac incidence: ?/6*, conc. range: 20-110 μg/kg, incidence: 19/19*, conc. range: 5-126 µg/kg, country: India⁷²⁰, *nah country: India192, *ncac, rain-affected incidence: 51/139* **, conc. range: 0.1–1 incidence: 3/3*, conc. range: 11.5-72.5 µg/kg, $\mu g/kg$ (36 sa), 1.1–2 $\mu g/kg$ (5 sa), >2 $\mu g/kg$ Ø conc.: 34.2 μg/kg, country: USA²⁰¹, *ncac (10 sa, with a maximum of 16.4 µg/kg), incidence: 1*/1** ***, conc.: 68.5 μg/kg, country: UK⁷⁴⁵, *from different countries, country: USA²⁰¹, *from the WHO, **yellow, ***ncac incidence: 1*/?, conc.: tr, country: Kenya⁷⁴⁶, incidence: 82/214*, conc. range: 0.2–129 *sun dried, green μg/kg, Ø conc.: 9.4 μg/kg, country: Brazil²⁰⁵, incidence: 1*/?, conc.: 40 µg/kg, country: *ncac Kenya⁷⁴⁶, *crumbled (Njenga) incidence: 8/15*, conc. range: 2–338 µg/kg, Ø incidence: 19/103*, conc. range: 3-130 μg/kg, conc.: 102.3 µg/kg, country: Denmark²⁰⁶, Ø conc.: 22 μg/kg, country: Nigeria⁷⁵⁹, *ncac *from Ghana incidence: 5/150*, conc. range: 10-50 µg/kg, incidence: 8/36*, conc. range: 12–878 µg/kg, Ø conc.: 24 µg/kg, country: Argentina⁷⁶², Ø conc.: 166.5 μg/kg, country: Brazil²³⁷, *for *ncac food and feed incidence: 97/292, conc. range: 2-89 µg/kg, incidence: 14/109*, conc. range: 2-103.3 country: Brazil⁷⁶⁹ $\mu g/kg$, \varnothing conc.: 17.3 $\mu g/kg$, country: incidence: 6/37, conc. range: 5-50 µg/kg, Colombia²⁹⁶, *and products country: Venezuela⁷⁷⁷ incidence: 17/20, conc. range: 9-2496 µg/kg, incidence: 17/150*, conc. range: 38-460 Ø conc.: 460 μg/kg, country: China³⁰⁷ μg/kg, country: Brazil⁷⁸¹, *ncac incidence: 1/20, conc.: 44 µg/kg, country: China³⁰⁷ incidence: 27/167* **, conc. range: 2-73.9 μg/kg, country: Turkey⁷⁸³, *and imported, incidence: 4/36*, conc. range: 6–27 µg/kg, Ø conc.: 12.8 µg/kg, country: Brazil³²³, *ncac **ncac incidence: 20/36*, conc. range: 25-289 µg/kg, incidence: 45/102, conc. range: 20–7400 Ø conc.: 152 μg/kg, country: Brazil³²³, *ncac μg/kg, country: India⁷⁸⁸

incidence: 13/30, conc. range: 30-750 µg/kg, country: India⁷⁸⁹ incidence: 445/2271*, conc. range: <560 μg/kg, country: Argentina⁷⁹⁰, *ncac incidence: 2/23?*, conc. range: 6.7-131.8 μ g/kg, Ø conc.: 69.3 μ g/kg, country: UK⁷⁹¹, *from Honduras incidence: 44/328*, conc. range: 5-900 µg/kg, Ø conc.: 64.6 μg/kg, country: Brazil⁸⁰¹, *ncac incidence: 6/283*, conc. range: 12-25 µg/kg, country: USA⁸¹¹, *ncac incidence: 8/293*, conc. range: <6-25 µg/kg, country: USA⁸¹², *ncac incidence: 101/246*, conc. range: 1-19 μg/kg (6 sa), 20-80 μg/kg (10 sa), 81-120 μg/kg (23 sa), 121–250 μg/kg (19 sa), 251–500 μg/kg $(20 \text{ sa}), 501-1000 \mu\text{g/kg} (17 \text{ sa}), >1000 \mu\text{g/kg}$ (6 sa), country: India⁸¹⁵, *from field crops incidence: 30/70*, conc. range: 20-80 µg/kg (5 sa), 81–250 μg/kg (9 sa), 251–500 μg/kg (6 sa), 501-1000 μg/kg (7 sa), >1000 μg/kg (3 sa), country: India⁸¹⁵, *from storage incidence: 39/45*, conc. range: 1-2230 µg/kg, Ø conc.: 248 μg/kg, country: USA⁸²⁶, *ncac incidence: 44/50* ** ***, conc. range: 1-430 μg/kg, Ø conc.: 49 μg/kg, country: Japan⁸³², *from Philippines, **for seeds, food and feed, ***and ground incidence: 17/27* ** ***, conc. range: 1-606

 $\mu g/kg$, \varnothing conc.: 63 $\mu g/kg$, country: Japan⁸³², *from Thailand, **for seeds, food and feed, ***and ground

incidence: 10/12* ** ***, conc. range: 1-3300 μ g/kg, Ø conc.: 352 μ g/kg, country: Japan⁸³², *from Indonesia, **for seeds, food and feed, ***and ground

incidence: 1/292* **, conc.: 0.24 μg/kg, country: UK⁸³⁸, *and from different countries, **includes sweetcorn, corn on the cob, baby food, corn oil, corn flour, polenta, maize meal, maize pasta, maize based snacks

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix

seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize and beans, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂ incidence: 3/3*, conc. range: 3.2-70 µg/kg, country: Canada³⁸, *ncac incidence: 1/6, conc.: 3.7 µg/kg, country:

incidence: 3/3*, conc. range: 1.05-40 µg/kg, Ø conc.: 14.3 μg/kg, country: UK⁷⁰, *ncac incidence: 3/3, conc. range: 2.3–5 µg/kg, Ø conc.: 4.1 µg/kg, country: Nepal⁹² incidence: 4/181, conc. range: 0.1-0.4 µg/kg, Ø conc.: 0.2 μg/kg, country: Japan⁹⁹ incidence: 2/30*, conc. range: tr-3 µg/kg, country: Argentina¹³², *ncac incidence: 1/16*, conc.: 547 μg/kg, country: Egypt¹⁴⁴, *yellow incidence: 4/49*, conc. range: 577-5481 µg/kg, Ø conc.: 3660 μg/kg, country: Egypt¹⁴⁴, *white incidence: 8/8* **, conc. range: 15-290 µg/kg, \varnothing conc.: 100.25 µg/kg, country: USA¹⁶⁵, *ground, **ncac incidence: 15/60, conc. range: tr-40 µg/kg, country: USA166 incidence: 4/567*, conc. range: 52-129 µg/kg, country: Taiwan¹⁸⁹, *from USA incidence: 135/162*, conc. range: 49–260 μg/kg, country: Taiwan¹⁸⁹, *from Thailand incidence: 43/214*, conc. range: 0.1-32 µg/kg, Ø conc.: 2.1 μg/kg, country: Brazil²⁰⁵, *ncac incidence: 7/15*, conc. range: 1–54 μg/kg, Ø conc.: 12.3 µg/kg, country: Denmark²⁰⁶, *from Ghana incidence: 3/36*, conc. range: 7–180 µg/kg, Ø conc.: 78.3 µg/kg, country: Brazil²³⁷, *for food and feed incidence: 13/20, conc. range: 11-320 µg/kg, Ø conc.: 82 μg/kg, country: China³⁰⁷ incidence: 1/20, conc.: 11 µg/kg, country: incidence: 3/36*, conc. range: 1.9–6 μg/kg, Ø conc.: 3.3 µg/kg, country: Brazil³²³, *ncac incidence: 20/36*, conc. range: 7–55 μg/kg, Ø conc.: 22.1 µg/kg, country: Brazil³²³, *ncac incidence: 32/38*, conc. range: 6-192 µg/kg, Ø conc.: 38.9 μg/kg, country: Brazil³²³, *ncac incidence: 26/60, conc. range: 81-120 µg/kg (8 sa), 121–250 μg/kg (4 sa), 251–500 μg/kg $(6 \text{ sa}), 501-1000 \mu \text{g/kg} (6 \text{ sa}), >1000 \mu \text{g/kg}$ (2 sa), country: India388 incidence: 9/16, conc. range: 1–160 µg/kg, Ø conc.: 20 µg/kg, country: Indonesia⁴²⁶ incidence: 1*/?, conc.: tr, country: Kenya⁷⁴⁶, *sun dried, green

Kenya⁷⁴⁶, *crumbled (Njenga) incidence: 8/103*, conc. range: 4–26 µg/kg, Ø conc.: 10 µg/kg, country: Nigeria⁷⁵⁹, *ncac incidence: 33/292, conc. range: 1-17 µg/kg, country: Brazil⁷⁶⁹ incidence: 8/167* **, conc. range: 1.5-6 μg/kg, country: Turkey⁷⁸³, *and imported, **ncac incidence: 6/30, conc. range: 15-275 µg/kg, country: India⁷⁸⁹ incidence: $92/2271^*$, conc. range: ≤ 130 μg/kg, country: Argentina⁷⁹⁰, *ncac incidence: 4/293*, conc. range: <3-5 µg/kg, country: USA812, *ncac incidence: 49/246*, conc. range: 81–120 µg/kg (3 sa), 121-250 μg/kg (15 sa), 251-500 μg/kg (13 sa), $501-1000 \mu g/kg$ (13 sa), $>1000 \mu g/kg$ (5 sa), country: India⁸¹⁵, *from field crops incidence: 18/70*, conc. range: 20-80 µg/kg (1 sa), 81–250 μg/kg (3 sa), 251–500 μg/kg (5 sa), 501–1000 μg/kg (6 sa), >1000 μg/kg (3 sa), country: India815, *from storage incidence: 34/45*, conc. range: tr-51 µg/kg, country: USA826, *ncac incidence: 34/50* ** ***, conc. range: 1-78 $\mu g/kg$, \varnothing conc.: 14 $\mu g/kg$, country: Japan⁸³², *from Philippines, **for seeds, food and feed, ***and ground incidence: 11/27* ** ***, conc. range: 1-73 μg/kg, Ø conc.: 14 μg/kg, country: Japan⁸³², *from Thailand, **for seeds, food and feed, ***and ground incidence: 8/12* ** ***, conc. range: 1–680 μg/kg, Ø conc.: 90 μg/kg, country: Japan⁸³², *from Indonesia, **for seeds, food and feed, ***and ground incidence: 1/292* **, conc.: 0.03 μg/kg, country: UK838, *and from different countries, **includes sweetcorn, corn on the cob, baby food, corn oil, corn flour, polenta, maize meal, maize pasta, maize based snacks and tortillas see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food

incidence: 1*/?, conc.: 10 μg/kg, country:

(infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Aflatoxin G_1

incidence: 3/38, conc. range: 8–22 μg/kg, country: Tunisia²⁰

incidence: 1/3*, conc.: 74 μg/kg, country:

Canada³⁸, *ncac

incidence: 20/41, conc. range: 1.6–57.1 μg/kg, Ø conc.: 9.7 μg/kg, country: Mexico⁴⁸ incidence: 32/238*, conc. range: 1–1173

μg/kg, country: USA⁶⁹, *ncac

incidence: $2/3^*$, conc. range: $0.5-96.5 \mu g/kg$, \varnothing conc.: $48.5 \mu g/kg$, country: UK^{70} , *ncac incidence: 1/3, conc.: $57.6 \mu g/kg$, country: Nepal⁹²

incidence: 2/16*, conc. range: 434.1–530 μg/kg, Ø conc.: 482.1 μg/kg, country:

Egypt¹⁴⁴, *yellow

incidence: 1/49*, conc.: 9020 μg/kg, country: Egypt¹⁴⁴, *white

incidence: 5/60, conc. range: tr–10 μg/kg, country: USA¹⁶⁶

incidence: 17/162*, conc. range: 50–250 μg/kg, country: Taiwan¹⁸⁹, *from Thailand incidence: 11/214*, conc. range: 0.2–12 μg/kg, Ø conc.: 1.9 μg/kg, country: Brazil²⁰⁵, *ncac

incidence: 2/15*, conc. range: 48–434 μg/kg, Ø conc.: 265 μg/kg, country: Denmark²⁰⁶, *from Ghana

incidence: 2/36*, conc. range: 28 μ g/kg, \varnothing conc.: 28 μ g/kg, country: Brazil²³⁷, *for food and feed

incidence: 9/20, conc. range: 12–21 μ g/kg, \varnothing conc.: 15 μ g/kg, country: China³⁰⁷

incidence: 2/36*, conc. range: 39–254 µg/kg, \varnothing conc.: 146.5 µg/kg, country: Brazil³2³, *ncac incidence: 9/36*, conc. range: 25–112 µg/kg, \varnothing conc.: 53.8 µg/kg, country: Brazil³2³, *ncac incidence: 7/60, conc. range: 81–120 µg/kg (1 sa), 121–250 µg/kg (1 sa), 251–500 µg/kg (2 sa), 501–1000 µg/kg (2 sa), >1000 µg/kg (1 sa), country: India³88

incidence: 5/16, conc. range: tr–8 μg/kg, country: Indonesia⁴²⁶

incidence: 2*/?, conc. range: tr, country: Kenya⁷⁴⁶, *sun dried, green

incidence: 1*/?, conc.: 5 μg/kg, country: Kenya⁷⁴⁶, *crumbled (Njenga)

incidence: $3/103^*$, conc. range: $5-11 \mu g/kg$, \varnothing conc.: $8 \mu g/kg$, country: Nigeria⁷⁵⁹, *ncac incidence: $2/150^*$, conc. range: $10-25 \mu g/kg$, \varnothing conc.: $17.5 \mu g/kg$, country: Argentina⁷⁶²,

Ø conc.: 17.5 μg/kg, country: Argentina⁷⁶², *ncac incidence: 13/292, conc. range: 2–85 μg/kg,

incidence: 13/292, conc. range: 2–85 μg/kg. country: Brazil⁷⁶⁹

incidence: 3/167* **, conc. range: 2–5.4 μg/kg, country: Turkey⁷⁸³, *and imported, **ncac

incidence: 1/283*, conc.: 12 μg/kg, country: USA⁸¹¹, *ncac

incidence: 1/293*, conc.: 25 $\mu g/kg$, country: USA⁸¹², *ncac

incidence: $15/246^*$, conc. range: 121-250 µg/kg (3 sa), 251-500 µg/kg (4 sa), 501-1000 µg/kg (5 sa), >1000 µg/kg (3 sa), country: India⁸¹⁵, *from field crops

incidence: $6/70^*$, conc. range: $81-250 \mu g/kg$ (1 sa), $251-500 \mu g/kg$ (2 sa), $501-1000 \mu g/kg$ (2 sa), $>1000 \mu g/kg$ (1 sa), country: India⁸¹⁵, *from storage

incidence: 5/45*, conc. range: 1–36 µg/kg, \varnothing conc.: 13.4 µg/kg, country: USA⁸²⁶, *ncac incidence: 2/50* ** ***, conc. range: 40–78 µg/kg, \varnothing conc.: 59 µg/kg, country: Japan⁸³²,

*from Philippines, **for seeds, food and feed, incidence: 2/36*, conc. range: 6–11 µg/kg, Ø ***and ground conc.: 8.5 µg/kg, country: Brazil²³⁷, *for food incidence: 3/27* ** ***, conc. range: 2-7 and feed μg/kg, Ø conc.: 5 μg/kg, country: Japan⁸³², incidence: 2/36*, conc. range: 26–58 μg/kg, Ø *from Thailand, **for seeds, food and feed, conc.: 42 µg/kg, country: Brazil³²³, *ncac ***and ground incidence: 5/36*, conc. range: 7–26 μg/kg, Ø incidence: 1/292* **, conc.: 0.01 μg/kg, conc.: 14.8 µg/kg, country: Brazil³²³, *ncac country: UK⁸³⁸, *and from different incidence: 2*/?, conc. range: tr, country: countries, **includes sweetcorn, corn on the Kenya⁷⁴⁶, *sun dried, green incidence: 1*/?, conc.: 5 µg/kg, country: cob, baby food, corn oil, corn flour, polenta, Kenya⁷⁴⁶, *crumbled (Njenga) maize meal, maize pasta, maize based snacks and tortillas incidence: 1/103*, conc.: 7 μg/kg, country: see also areca nut, beans, betel nut, Nigeria⁷⁵⁹, *ncac buckwheat, celery seeds, cereals (breakfast), incidence: 7/292, conc. range: 1-6 µg/kg, country: Brazil769 cheese, cocoa, dates, figs, fish, flour incidence: 2/167* **, conc. range: 2-3 µg/kg, (maize), flour (wheat), food, fruits (lemon), country: Turkey⁷⁸³, *and imported, **ncac fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize dough, maize incidence: 1/293*, conc.: 6 µg/kg, country: USA⁸¹², *ncac products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts incidence: 2/45*, conc. range: tr-5 µg/kg, country: USA826, *ncac (brazil), nuts (cashew), nuts (coconut), nuts incidence: 2/50* ** ***, conc. range: 13–33 (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), μg/kg, Ø conc.: 23 μg/kg, country: Japan⁸³², nuts (pecan), nuts (pine), nuts (pistachio), *from Philippines, **for seeds, food and feed, nuts (walnut), oil (olive), oil (peanut), paste ***and ground (soybean), peas, popcorn, raisins, rice, sesame see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices fish, flour (maize), flour (wheat), food, fruits (chilli powder), spices (coriander), spices (lemon), fruits (mango), Ga Kenkey, gruel, (cumin), spices (fennel), spices (fenugreek), maize dough, milk (human breast), nuts, spices (garlic), spices (ginger), spices nuts (brazil), nuts (cashew), nuts (coconut), (Indian cassia), spices (mustard), spices nuts (grogannut), nuts (peanut), nuts (nutmeg), spices (paprika), spices (pepper), (peanut butter), nuts (peanut products), nuts spices (pepper, cayenne), spices (pinhol), (pistachio), nuts (walnut), oil (olive), paste spices (turmeric), sunflower seeds, wine (soybean), popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom), Aflatoxin G₂ spices (chilli), spices (coriander), spices incidence: 1/3*, conc.: 38.5 μg/kg, country: (cumin), spices (fennel), spices (ginger), UK⁷⁰, *ncac spices (Indian cassia), spices (mustard), incidence: 1/3, conc.: 9.7 µg/kg, country: spices (nutmeg), spices (paprika), spices Nepal⁹² (pepper), spices (pepper, cayenne), spices incidence: 2/60, conc. range: tr-1 μg/kg, (turmeric), sunflower seeds, wine country: USA¹⁶⁶ incidence: 2/162*, conc. range: 49–110 μg/kg, Aflatoxin M_1 country: Taiwan¹⁸⁹, *from Thailand incidence: 8/8* **, conc. range: 1-35 µg/kg, Ø conc.: 6.75 μg/kg, country: USA¹⁶⁵, incidence: 2/214*, conc. range: 0.4-4 μg/kg, Ø conc.: 2.2 μg/kg, country: Brazil²⁰⁵, *ncac *ground, **ncac incidence: 2/15*, conc. range: 4–17 µg/kg, Ø see also butter, cheese, cheese (blue), gruel, conc.: 10.5 µg/kg, country: Denmark²⁰⁶, ice cream, kidney (poultry), koshk, *from Ghana lactoserum powder, milk, milk packets, milk

powder, milk products, milk (buffalo), milk (camel), milk (cow), milk (goat), milk (human breast), milk (raw or dried, for infant formula), milk (sheep), milk (sheep/goat), milk (UHT), milk (whey powder), yogurt

Aflatoxin

incidence: 9/22*, conc. range: 0–107 μg/kg, country: Nigeria¹⁰, *ncac incidence: 113/250*, Ø conc. range: 46–8665 μg/kg, country: USA⁴², *ncac incidence: 90/7937*, conc. range: ≤396 μg/kg, country: USA⁷³, *ncac incidence: 235/17,245*, conc. range: nc, country: USA⁷³, *ncac incidence: ?/4, conc. range: ≤0.2 μg/kg, country: Ethopia⁷⁶

incidence: 4471/12,776*, conc. range: 21–70 μg/kg (2163 sa), 71–200 μg/kg (2076 sa), 201–300 μg/kg (205 sa), 301–400 μg/kg (25

sa), >400 μg/kg (2 sa), country: Mexico⁹⁰, *ncac

incidence: $45/45^*$, conc. range: $0-19 \mu g/kg$ (23 sa), $20-99 \mu g/kg$ (15 sa), $100-399 \mu g/kg$ (5 sa), $400-799 \mu g/kg$ (2 sa), country: USA¹²⁸, *ncac

incidence: 45/45*, conc. range: 0–19 μg/kg (33 sa), 20–99 μg/kg (7 sa), 100–399 μg/kg (2 sa), 400–799 μg/kg (3 sa), country: USA¹²⁸, *ncac

incidence: 6/923*, conc. range: 13–151 µg/kg, \varnothing conc.: 45 µg/kg, country: USA¹⁷⁹, *ncac incidence: 33/76*, conc. range: 11–30 µg/kg (14 sa), 31–100 µg/kg (12 sa), >100 µg/kg (7 sa, with a maximum of 806 µg/kg), country: India¹⁹⁵, *ncac

incidence: 25/192* **, conc. range: tr–117 µg/kg, country: USA⁸¹⁹, *dry–milled, **ncac see also barley, beer, bran (rice), flour (maize), injera, jars, kocho, maize roti, malt (barley), malt (maize), nuts (peanut), nuts (peanut butter), nuts (pistachio), oil (peanut), paste (pepper, red), rice, spices (pepper)

AFLATOXINS (B_1 , B_2) incidence: 7/68*, conc. range: <5 μg/kg (2 sa), 6–20 μg/kg (4 sa), 28 μg/kg (1 sa) country: Guatemala³³, *white

incidence: 8/8*, conc. range: 7–360 µg/kg, \varnothing conc.: 147 µg/kg, country: USA⁷¹³, *ncac incidence: 16/75, conc. range: \le 20.8 µg/kg, country: Venezuela⁸⁵¹ see also flour (maize), meal (protein supplement), millet, rice, spices

AFLATOXINS (B₁, B₂, G₁) incidence: 7/50*, conc. range: <5 μ g/kg (1 sa), 6–20 μ g/kg (3 sa), 21–50 μ g/kg (1 sa), >50 μ g/kg (2 sa, maximum 240 μ g/kg) country: Guatemala³³, *yellow see also coffee, meal (maize), nuts (peanut), rice

Aflatoxins (B_1, B_2, G_1, G_2) incidence: 22*/49, conc. range: 1-100 µg/kg (13 samples), 100–1000 μg/kg (9 sa), country: Uganda⁵, *19 sa contained AFB₁, 11 AFB₂, 14 AFG₁, 4 AFG₂ incidence: 7/47, conc. range: 6-20 µg/kg (4 sa), 21-100 μg/kg (2 sa), 130 μg/kg (1 sa), country: Guatemala³⁴ incidence: 30/30, conc. range: 4–400 µg/kg, Ø conc.: 88 µg/kg, country: Brazil¹⁰⁸ incidence: 30/30*, conc. range: 4-389 μg/kg, Ø conc.: 84.8 μg/kg, country: Brazil¹⁰⁸, *fraction <4.5 mm incidence: 30/30*, conc. range: 6-1172 µg/kg, Ø conc.: 204 μg/kg, country: Brazil¹⁰⁸, *fraction <4.5 mm incidence: 22/62, Ø conc.: 400 μg/kg, max. conc.: 2730 µg/kg, country: Thailand¹⁶³ incidence: 9*/27, conc. range: tr-10 μg/kg, country: UK²²⁰, *includes maize and maize

products incidence: 20/139* **, conc. range: 0.4–1 μg/kg (14 sa), 1.1–4 μg/kg (9 sa), >4 μg/kg (7 sa, with a maximum of 29.1 μg/kg), country: UK⁷⁴⁵, *from different countries, **ncac incidence: 1/71*, conc.: >20 μg/kg (1 sa), country: Uruguay⁷⁸⁷, *ncac incidence: 57/319*, conc. range: tr–>100 μg/kg, country: USA⁸²⁰, *ncac incidence: 17/57* **, conc. range: >20–845 μg/kg, country: USA⁸²⁰, *damaged, **ncac see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices,

lentils, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (fig), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

Aflatoxins (Total)

incidence: $5/47^*$ **, conc. range: >6.8–10 µg/kg (4 sa), -15 µg/kg (1 sa), country: Switzerland¹³¹, *from Ecuador, **soft incidence: $16/42^*$ **, conc. range: >6.8–20 µg/kg (6 sa), -50 µg/kg (1 sa), -100 µg/kg (2 sa), -500 µg/kg (4 sa), -2000 µg/kg (3 sa), country: Switzerland¹³¹, *from Ecuador, **hard

incidence: 394/1283, conc. range: <10 μ g/kg (136 sa), 10–19 μ g/kg (93 sa), 20–29 μ g/kg (45 sa), 30–100 μ g/kg (91 sa), >100 μ g/kg (29 sa, with a maximum of 306 μ g/kg), country: USA¹⁷³

see also beans, butter, figs, nut cereals, nuts (almond), nuts (brazil), nuts (cashew), nuts ("chico-felix"), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), paste (fig), rice, sunflower seeds

incidence: 4/30* ** ***, conc. range:

 $0.1-\leq 23.4 \,\mu \text{g/kg country: Qatar}^2$, *ncac,

AFLATOXINS

**includes maize and maize products,

***imported
incidence: 42/42*, conc. range: 1–20 μg/kg (2 sa), 21–50 μg/kg (19 sa), 51–100 μg/kg (15 sa), 101–200 μg/kg (5 sa), 201–300 μg/kg (1 sa), Ø conc.: 66 μg/kg, country: Mexico³⁵, *si incidence: 49/49*, conc. range: 51–100 μg/kg (6 sa), 101–200 μg/kg (12 sa), 201–300 μg/kg

(11 sa), 301–400 μg/kg (12 sa), 401–500 μg/kg (5 sa), 501–600 μg/kg (2 sa), 610–2000 $\mu g/kg$ (1 sa), \varnothing conc.: 295 $\mu g/kg$, country: Mexico³⁵, *nsi incidence: 9*/10, conc. range: 2–35 µg/kg, Ø conc.: 9.7 µg/kg, country: The Gambia⁷² incidence: 77/99*, conc. range: 1-19 µg/kg (40 sa), 20–49 μg/kg (15 sa), 50–99 μg/kg (11 sa), $100-499 \mu g/kg (10 sa)$, $>500 \mu g/kg (1$ sa), country: USA¹⁵⁸, *ncac incidence: 215/253*, conc. range: 1-19 µg/kg (70 sa), 20–49 μg/kg (72 sa), 50–99 μg/kg (37 sa), 100–499 μ g/kg (31 sa), \geq 500 μ g/kg (5 sa), country: USA¹⁵⁸, *ncac incidence: 7/22*, conc. range: 12-160 µg/kg AFB₁, 25–90 μg/kg AFB₂, 10–95 μg/kg AFG₁, 65 μg/kg AFG₂, country: India⁷⁸⁴, *ncac see also beans, candy (peanut), candy (pistachio), cassava, figs, flour (maize), grain mixtures, grains, maize dough, maize products, melon seeds, millet, nuts, nuts (almond), nuts (brazil), nuts (peanut), nuts (peanut butter), nuts (peanut mix), nuts (peanut products), nuts (pecan), nuts (pistachio), nuts (walnut), nuts and seeds, paste (peanut), paste (pipian), peas, rice, sauce (leaf), snacks, sorghum, spices, spices (chilli), spices (cumin), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper), spices (tandoori), teff, tubers, wheat

ALTENUENE

incidence: 3/15*, conc. range: ≤370 µg/kg, country: Egypt²⁹¹, *yellow see also barley, fruits (apple), olives, ragi, rice, sorghum, tomatoes, wheat

BEAUVERICIN

incidence: $4/6^*$ **, conc. range: 5000–10,000 μg/kg, \varnothing conc.: 7500 μg/kg, country: Italy⁴³³, *moldy, **ncac incidence: 19/209*, conc. range: 13–1864 μg/kg, \varnothing conc.: 408.9 μg/kg, country: Croatia⁴⁶⁰, *ncac incidence: 12/12*, conc. range: 1800–36,890 μg/kg, \varnothing conc.: 15,221 μg/kg, country: Poland⁴⁶³, *ncac incidence: 4/42* **, conc. range: 4000–40,000 μg/kg, \varnothing conc.: 21,000 μg/kg, country: Italy⁴⁹⁴, *s, **ncac

incidence: 13/14* **, conc. range: 5000–60,000 μg/kg, Ø conc.: 18,846 μg/kg, country: Poland⁴⁹⁵, *Fdk, **ncac incidence: 3/99* ** ***, conc. range: 120–450 μg/kg, Ø conc.: 253 μg/kg, country: Switzerland⁵⁰², *imported, **and products, ***ncac incidence: 6/22* **, conc. range: tr–520,000 μg/kg, country: Italy⁵¹³, *vm, **ncac see also barley, oats, wheat

CITREOVIRIDIN

incidence: $5/8^*$, conc. range: $19-2790 \mu g/kg$, \varnothing conc.: $1230 \mu g/kg$, country: USA⁷¹³, *ncac

CITRININ

incidence: 3/36*, conc. range: 71.2–211.3 μg/kg, Ø conc.: 62.9 μg/kg?, country: Egypt⁷²¹, *yellow incidence: 1/1*, conc.: 450 μg/kg, country: UK⁸⁰⁷, *ncac see also angkak (red mold rice), barley, cereals, cheese, food, food colorant, fruits (apple), maize dough, meal (copra), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), oil seed rape, olives, rice, spices, spices (cardamom), spices (coriander), spices (cumin), spices (fennel), spices (pepper), spices (turmeric), wheat

Cyclopiazonic Acid incidence: 23/45*, conc. range: tr–2771 μg/kg, country: USA⁸²⁶, *ncac see also cassava, cheese, milk (cow), nuts (peanut), pulp (tomato), tomato purée

Deoxynivalenol

incidence: 15/18*, conc. range: tr–2800 µg/kg, \varnothing conc.: 400 µg/kg, country: France²⁰⁴, *ncac incidence: 14/21*, conc. range: tr–558 µg/kg, \varnothing conc.: 70 µg/kg, country: France²⁰⁴, *ncac incidence: 6/9*, conc. range: 100–500 µg/kg, \varnothing conc.: 166.7 µg/kg, country: Cameroon²⁴¹, *ncac

incidence: 9/9*, conc. range: 100–1300 µg/kg, \varnothing conc.: 433.3 µg/kg, country: Cameroon²⁴¹, *ncac

EC area

*high EC area

incidence: 22/34, conc. range: 13–1160 μ g/kg, \varnothing conc.: 400 μ g/kg, country: China²⁸⁵

incidence: 2/20, conc. range: 15–87 µg/kg, Ø conc.: 51 µg/kg, country: China²⁸⁵ incidence: 42/196*, conc. range: <2–600 μg/kg, Ø conc.: 239.4 μg/kg, country: Saudi Arabia³²⁵, *ncac incidence: 2/2, conc. range: 256-21,200 µg/kg, Ø conc.: 10,728 μg/kg, country: China³⁴² incidence: 15/15*, conc. range: 727–5227 $\mu g/kg$, \varnothing conc.: 2767 $\mu g/kg$, country: USA³⁷², *ncac incidence: 7/8, conc. range: 1200-3000 µg/kg, Ø conc.: 1800 μg/kg, country: USA⁴²⁴ incidence: 2/16, conc. range: 21–32 µg/kg, Ø conc.: 27 μg/kg, country: Indonesia⁴²⁶ incidence: 6/7, conc.: 1800–32,500 μg/kg, Ø conc.: 8900 µg/kg, country: Poland⁴³⁸, *hdk, **ncac incidence: 14/17*, conc. range: 20-100 µg/kg (6 sa), $\leq 1450 \,\mu\text{g/kg}$ (8 sa), country: UK⁴⁵⁰, *imported incidence: 8/11*, conc. range: 10-20 µg/kg (1 sa), 20–100 μg/kg (5 sa), 110 μg/kg (1 sa), 140 μg/kg (1 sa), country: UK⁴⁵⁰, *brewers incidence: 24/24* **, conc. range: 360-12,670 μg/kg, Ø conc.: 5376 μg/kg, country: China⁴⁵⁶, *and meal, **high EC area incidence: 5/13*, conc. range: 30-300 µg/kg, Ø conc.: 164 μg/kg, country: New Zealand⁴⁵⁷, incidence: 2/2, conc. range: 20–30 µg/kg, Ø conc.: 25 µg/kg, country: New Zealand⁴⁵⁷ incidence: 30/46, conc. range: 29-2752 µg/kg, Ø conc.: 310 μg/kg, country: Korea⁴⁶² incidence: 7/16*, conc. range: 900-2700 μg/kg, Ø conc.: 1400 μg/kg, country: USA⁴⁷⁸, *from China incidence: 25/93*, conc. range: 4-871 µg/kg, Ø conc.: 247.6 μg/kg, country: Italy⁴⁸¹, *ncac incidence: ?/27*, conc. range: 17-3505 µg/kg, Ø conc.: 574 μg/kg, country: China⁴⁹⁷, *high incidence: 8/20*, conc. range: 11-612 µg/kg, Ø conc.: 99 μg/kg, country: China⁴⁹⁷, *low

incidence: 10/10*, conc. range: 48-3919

μg/kg, Ø conc.: 650 μg/kg, country: China⁴⁹⁸,

incidence: 5/5*, conc. range: 129-713 µg/kg, incidence: $48/50^*$, conc. range: $\leq 2100 \,\mu g/kg$, Ø conc.: 356 μg/kg, country: China⁴⁹⁸, *medial EC area incidence: 10/10*, conc. range: 20-725 µg/kg, Ø conc.: 163 μg/kg, country: China⁴⁹⁸, *low EC area incidence: 3/3* **, conc. range: 24-36 µg/kg, Ø conc.: 30.7 μg/kg, country: The Netherlands⁵⁰⁰, *unknown, **ncac incidence: 1/3, conc.: 352 µg/kg, country: Korea⁵⁰⁹ incidence: 14/15*, conc. range: 22-442 µg/kg, Ø conc.: 145 μg/kg, country: Korea⁵¹⁴, *ncac incidence: 243/283*, conc. range: 20-4090 μg/kg, country: Canada⁵²¹, *ncac incidence: 2/86, conc. range: 410-2020 µg/kg, Ø conc.: 1215 μg/kg, country: India⁵²⁶ incidence: 34/36*, conc. range: 6-15,200 µg/kg, Ø conc.: 4000 μg/kg, country: Korea⁵²⁷, *vm incidence: 8/35*, conc. range: 10-100 μg/kg, Ø conc.: 40 μg/kg, country: Korea⁵²⁷, *vh incidence: 9/45*, Ø conc.: 402 μg/kg, country: Japan⁵³⁰, *ncac incidence: 4/5* **, conc. range: 240–570 μ g/kg, Ø conc.: 410 μ g/kg, country: Japan⁵³², *from USA, **ncac incidence: 1/1* **, conc.: 960 µg/kg, country: Japan⁵³⁷, *from Canada, **ncac incidence: 2/20* **, Ø conc.: 111 μg/kg, country: Japan⁵³⁸, *from Argentina, **ncac incidence: 2/3* **, Ø conc.: 402 μg/kg, country: Japan⁵³⁸, *from Italy, **ncac incidence: 3/9* **, Ø onc.: 541 μg/kg, country: Japan⁵³⁸, *from Nepal, **ncac incidence: 1/12* **, con.: 6 μg/kg, country: Japan⁵³⁸, *from Yemen, **ncac incidence: 2/2*, conc. range: 240-420 μg/kg, Ø conc.: 330 μg/kg, country: Canada⁵⁴⁰, *ncac incidence: 1/1*, conc.: 420 µg/kg, country: South Africa⁵⁴¹, *vm incidence: 1/1*, conc.: 2500 µg/kg, country: South Africa541, *Fdk incidence: 48/50*, conc. range: 20-2200 μg/kg, country: USA⁵⁴⁵, *ncac incidence: 97/105*, conc. range: 95-312 μg/kg, country: Taiwan⁵⁴⁷, *from South incidence: 20/93*, conc. range: 2-514 µg/kg, Africa, USA Ø conc.: 77.2 μg/kg, country: Italy⁴⁸¹, *ncac

country: USA⁵⁶¹, *ncac incidence: 2/4* **, conc. range: 280–640 µg/kg, Ø conc.: 460 μg/kg, country: Germany⁵⁶², *from Italy, USA, unknown origin, **o incidence: 3/5* ** ***, conc. range: 12,500–175,200 μg/kg, Ø conc.: 88,633 μg/kg, country: Italy⁵⁶³, *from Poland, **Fdk, ***ncac incidence: 93/198, conc. range: ≤2740 µg/kg, country: USA569 incidence: 15/46*, conc. range: 100-1500 μg/kg, Ø conc.: 140 μg/kg, country: USA⁷⁵⁸, *ncac incidence: 14/58*, conc. range: 200–400 μg/kg, country: Argentina⁷⁶², *ncac incidence: 141/249, conc. range: <1830 μg/kg, country: South Africa⁷⁹⁸ incidence: 39/292* **, conc. range: 50.4–2081.9 μg/kg, country: UK⁸³⁸, *and from different countries, **includes sweetcorn, corn on the cob, baby food, corn oil, corn flour, polenta, maize meal, maize pasta, maize based snacks and tortillas incidence: 1/11*, conc.: 650 µg/kg, country: Turkey⁸⁶³, *dried see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat 3-Acetyldeoxynivalenol

incidence: 2/10*, conc. range: 47-110 µg/kg, incidence: 30/36*, conc. range: 20-4600 Ø conc.: 79 μg/kg, country: China⁴⁹⁸, *high μg/kg, Ø conc.: 900 μg/kg, country: Korea⁵²⁷, *vm EC area incidence: 6/35*, conc. range: 2–100 µg/kg, Ø incidence: 4/10*, conc. range: 5–36 µg/kg, Ø conc.: 40 µg/kg, country: Korea⁵²⁷, *vh conc.: 18 µg/kg, country: China⁴⁹⁸, *medial incidence: 2/5* ** ***, conc. range: 500–600 EC area μg/kg, Ø conc.: 550 μg/kg, country: Italy⁵⁶³, incidence: 5/10*, conc. range: 5–121 μg/kg, Ø conc.: 47 µg/kg, country: China⁴⁹⁸, *medial *from Poland, **Fdk, ***ncac see also barley, bran (oat), bran (wheat), EC area cereals (breakfast), flour (maize), flour incidence: 12/36*, conc. range: 20-1500 (wheat), food, grits (maize), noodles, oat μg/kg, Ø conc.: 200 μg/kg, country: Korea⁵²⁷, products, oats, snacks, wheat incidence: 2/35*, conc. range: 50-200 µg/kg, Fumonisin B₁ Ø conc.: 200 μg/kg?, country: Korea⁵²⁷, *vh incidence: 50/50*, conc. range: 185–27,050 incidence: 2/5* ** ***, conc. range: μg/kg, Ø conc.: 2229 μg/kg, country: 2400-7500 μg/kg, Ø conc.: 4950 μg/kg, Argentina¹⁶⁷, *ncac country: Italy⁵⁶³, *from Poland, **Fdk, incidence: 26/35*, conc. range: 10–4700 ***ncac μg/kg, country: India¹⁹², *ncac see also barley, bread, cereals, cereals incidence: 19/19*, conc. range: 40-64,700 (breakfast), flakes (oat), flour (maize), flour μg/kg, country: India¹⁹², *ncac, rain–affected (wheat), food, food (baby), grits (maize), oat incidence: 212/214*, conc. range: 200-6100 products, oats, rice, rye, snacks, wheat µg/kg, Ø conc.: 2200 μg/kg, country: Brazil²⁰⁵, *ncac incidence: 14/14*, conc. range: 70–2621 15-ACETYLDEOXYNIVALENOL μ g/kg, \varnothing conc.: 608.8 μ g/kg, country: incidence: 13/34, conc. range: 76-620 µg/kg, Denmark²⁰⁶, *from Ghana Ø conc.: 237 μg/kg, country: China²⁸⁵ incidence: 15/15*, conc. range: 11–1655 incidence: 1/2, conc.: 2537 µg/kg, country: µg/kg, Ø conc.: 358.1 μg/kg, country: China³⁴² Denmark²⁰⁶, *from Ghana incidence: 12/46, conc. range: 22-1726 µg/kg, incidence: 1/6*, conc.: 956 μg/kg, country: Ø conc.: 297 μg/kg, country: Korea⁴⁶² Argentina²⁰⁸, *yellow incidence: 2/16*, conc. range: 500-700 μg/kg, incidence: 1/2*, conc.: 1322 µg/kg, country: Ø conc.: 600 μg/kg, country: USA⁴⁷⁸, *from Argentina²⁰⁸, *white China incidence: 2/11* **, conc. range: nd-80 incidence: ?/27*, conc. range: 44-752 µg/kg, μg/kg, Ø conc.: 70 μg/kg, country: Brazil²¹⁵, Ø conc.: 274 μg/kg, country: China⁴⁹⁷, *high *sweet, **canned EC area incidence: 8/11*, conc. range: nd-4520 µg/kg, incidence: 1/20*, conc.: 104 μg/kg, country: Ø conc.: 1160 μg/kg, country: Brazil²¹⁵, China⁴⁹⁷, *low EC area *degerminated incidence: 7/10*, conc. range: 48-918 µg/kg, incidence: 30/30*, conc. range: 460-9950 Ø conc.: 211 μg/kg, country: China⁴⁹⁸, *high μg/kg, Ø conc.: 3939 μg/kg, country: Argentina²³⁶, *ncac incidence: 5/5*, conc. range: 96–284 µg/kg, Ø incidence: 49/49*, conc. range: 142.2-1377.6 conc.: 176 µg/kg, country: China⁴⁹⁸, *medial µg/kg, Ø conc.: 459.8 μg/kg, country: EC area Croatia²⁴⁰, *ncac incidence: 5/10*, conc. range: 25-918 µg/kg, incidence: 9/9*, conc. range: 1900–26,000 Ø conc.: 64.8 μg/kg, country: China⁴⁹⁸, *low μ g/kg, \varnothing conc.: 7477.7 μ g/kg, country:

Cameroon²⁴¹, *ncac

EC area

Ø conc.: 1214.3 μg/kg, country: Cameroon²⁴¹, *ncac incidence: 11/38*, conc. range: 9.8–193 μg/kg, country: Germany²⁷⁴, *partly from Spain, Hungary, Israel incidence: 27/34, conc. range: 76–21,000 μg/kg, Ø conc.: 2730 μg/kg, country: China²⁸⁵ incidence: 10/20, conc. range: 79-8470 µg/kg, Ø conc.: 2702 μg/kg, country: China²⁸⁵ incidence: 61/74* **, conc. range: 4–16,000 μg/kg, country: Germany²⁹⁰, *partly from Italy, **maizeflour, maizegrits, polenta incidence: 15/20, conc. range: 58-1976 µg/kg, Ø conc.: 377 μg/kg, country: China³⁰⁷ incidence: 15/20, conc. range: 72-294 µg/kg, Ø conc.: 129 μg/kg, country: China³⁰⁷ incidence: 26/27*, conc. range: 70–2520 μg/kg, Ø conc.: 580 μg/kg, country: Brazil³²⁶, incidence: 86/86*, conc. range: 90-10,690 µg/kg, ∅ conc.: 2390 µg/kg, country: Brazil³²⁶, *ncac incidence: 37/37*, conc. range: 370–13,460 µg/kg, Ø conc.: 4560 μg/kg, country: Brazil³²⁶, *ncac incidence: 2/2, conc. range: 517–541 µg/kg, Ø conc.: 529 µg/kg, country: China342 incidence: 52/57*, conc. range: 110-17,690 μg/kg, country: Brazil³⁴⁹, *ncac incidence: 20/20*, conc. range: <50-4100 μg/kg, country: USA³⁵⁰, *ncac incidence: 55/108, conc. range: 65-1830 μg/kg, country: Nigeria³⁵¹ incidence: 2/3, conc. range: 15,000-36,000 μ g/kg, Ø conc.: 25,500 μ g/kg, country: USA³⁵² incidence: 8/8*, conc. range: <300,000 µg/kg, country: Italy³⁵³, *ncac incidence: 23/23*, conc. range: 1630-25,690 μg/kg, Ø conc.: 5610 μg/kg, country: Brazil³⁵⁴, *ncac incidence: 48/55*, conc. range: 200-19,200 µg/kg, Ø conc.: 4800 μg/kg, country: Spain³⁵⁵, *ncac incidence: 18/96, conc. range: 100-22,200 μg/kg, country: South Africa³⁵⁸ incidence: 35/35*, conc. range: 4–16,000 µg/kg, Ø conc.: 2500 µg/kg, country: Costa Rica³⁵⁹, *ncac

incidence: 7/9*, conc. range: 300-2000 µg/kg,

Italy³⁶⁰, *hybrids, **all grown in Portugal, ***ncac incidence: 11/19* ** ***, conc. range: 10–60 μg/kg, Ø conc.: 19.1 μg/kg, country: Italy³⁶⁰, *hybrids, **all grown in Croatia, ***ncac incidence: 2/7* ** ***, conc. range: 10–20 µg/kg, Ø conc.: 15 µg/kg, country: Italy³⁶⁰, *hybrids, **all grown in Poland, ***ncac incidence: 3/6* ** ***, conc. range: 10-20 μg/kg, Ø conc.: 13.3 μg/kg, country: Italy³⁶⁰, *hybrids, **all grown in Romania, ***ncac incidence: 9/9* ** ***, conc. range: 20–2630 μg/kg, Ø conc.: 570 μg/kg, country: Italy³⁶⁰, *hybrids, **all grown in Benin, ***ncac incidence: 20/20* ** ***, conc. range: 20–1420 μg/kg, Ø conc.: 180 μg/kg, country: Italy³⁶⁰, *hybrids, **all grown in Zambia, ***ncac incidence: 2/2* ** ***, conc. range: 280 µg/kg, Ø conc.: 280 µg/kg, country: Italy³⁶⁰, *hybrids, **unknown origin, ***ncac incidence: 7/7*, conc. range: 100-5310 μg/kg, Ø conc.: 2107.1 μg/kg, country: Italy³⁶², *ncac incidence: 6/6*, conc. range: 790-6100 μg/kg, Ø conc.: 3145 μg/kg, country: Italy³⁶², *puffed incidence: 5/5* **, conc. range: 60-790 µg/kg, Ø conc.: 298 μg/kg, country: Italy³⁶², *sweet, **canned and one sa fresh cobs incidence: 1/1, conc.: 8790 μg/kg, country: USA³⁶³, *ncac incidence: 6/6, conc. range: 4000-8000 µg/kg, Ø conc.: 5166.7 μg/kg, country: Zimbabwe³⁶⁵ incidence: 48/48*, conc. range: 600–18,520 µg/kg, Ø conc.: 5080 μg/kg, country: Brazil³⁶⁷, *for food and feed incidence: 1/1* **, conc.: 26 μg/kg, country: USA³⁶⁹, *yellow, **canned incidence: 47/197, conc. range: 110-12,000 μ g/kg, \varnothing conc.: 670 μ g/kg, country: Kenya³⁷¹ incidence: 5/12*, conc. range: 47-1010 μg/kg, Ø conc.: 298 μg/kg, country: Korea³⁷⁵, *for popping incidence: 62/62*, conc. range: tr-3350 µg/kg, Ø conc.: 626.8 μg/kg, country: The

incidence: 26/26* **, conc. range: 10-2330

*inbred lines, **ncac

 μ g/kg, \varnothing conc.: 381.9 μ g/kg, country: Italy³⁶⁰,

incidence: 9/9* ** ***, conc. range: 90–2300

µg/kg, Ø conc.: 1031.1 µg/kg, country:

Netherlands³⁷⁹, *from Bahrein, France, Greece and unknown origin incidence: 8/19*, conc. range: tr-380 µg/kg, country: The Netherlands³⁸⁰, *for bread production incidence: 1/10*, conc.: tr, country: The Netherlands³⁸⁰, *for popcorn incidence: 1/7*, conc.: 360 μg/kg, country: Turkey³⁸¹, *from USA incidence: 2/4*, conc. range: 300-320 µg/kg, Ø conc.: 310 μg/kg, country: Turkey³⁸¹, *canned incidence: 176/195* **, conc. range: 870–49,310 μg/kg, Ø conc.: 9720 μg/kg, country: Brazil382, *ncac, **hybrids incidence: 1/1* **, conc.: 3750 μg/kg, country: Japan³⁸⁷, *ncac, **imported? incidence: 11/22, conc. range: 165-5787 $\mu g/kg$, \varnothing conc.: 1876.2 $\mu g/kg$, country: Uruguay³⁹⁹ incidence: 1/2*, conc.: 155 μg/kg, country: Uruguay³⁹⁹, *frozen incidence: 1/7*, conc.: 70 μg/kg, country: Switzerland⁴⁰⁰, *sweet incidence: 212/214*, conc. range: 200-≤6000 μg/kg, country: Brazil⁴⁰¹, *ncac incidence: 2/12*, conc. range: ≤550, Ø conc.: 375 μg/kg, country: South Africa⁴⁰², *good corn, low-EC area incidence: 12/12*, conc. range: 50-7900 μg/kg, Ø conc.: 1600 μg/kg, country: South Africa⁴⁰², *good corn, high–EC area incidence: 11/11*, conc. range: 450–18,900 μg/kg, Ø conc.: 6520 μg/kg, country: South Africa⁴⁰², *moldy corn intended for beer brewing or animal feed, low-EC area incidence: 12/12*, conc. range: 3450-46,900 µg/kg, Ø conc.: 23,900 μg/kg, country: South Africa⁴⁰², *moldy corn intended for beer brewing or animal feed, high-EC area incidence: 6/8*, conc. range: ≤3310 μg/kg, Ø conc.: 667 µg/kg, country: South Africa402, *good corn, low-EC area incidence: 5/6*, conc. range: <5380 µg/kg, Ø conc.: 1840 µg/kg, country: South Africa402, *good corn, high-EC area incidence: 7/7*, conc. range: 110–11,340 μg/kg, Ø conc.: 4050 μg/kg, country: South Africa⁴⁰², *moldy corn, low-EC area

incidence: 6/6*, conc. range: 3020–117,520 μg/kg, Ø conc.: 53,740 μg/kg, country: South Africa⁴⁰², *moldy corn, high-EC area incidence: ?/5*, conc. range: 300-3400 µg/kg, country: USA403, *Indian incidence: 6/10, conc. range: 50–880 µg/kg, Ø conc.: 376.7 µg/kg, country: Iran408 incidence: 5/5* **, conc. range: 80-16,310 $\mu g/kg$, \varnothing conc.: 3612 $\mu g/kg$, country: USA⁴¹⁰, *including 1 white maize sa, **ncac incidence: 1/1*, conc.: 60 μg/kg, country: USA⁴¹⁰, *hominy incidence: 47/47* **, conc. range: 50–700 μg/kg, Ø conc.: 307.4 μg/kg, country: South Africa⁴¹¹, *from Argentina, **ncac incidence: 79/79* **, conc. range: 900–3900 μg/kg, Ø conc.: 2347 μg/kg, country: South Africa⁴¹¹, *from USA, **ncac incidence: 17/17* **, conc. range: 1655-6695 μg/kg, Ø conc.: 2876.8 μg/kg, country: South Africa⁴¹², *from Argentina, **ncac incidence: 7/7, conc. range: 105-1915 µg/kg, Ø conc.: 635 μg/kg, country: South Africa⁴¹³, *from USA incidence: 1/1*, conc.: 1848 µg/kg, country: USA⁴¹⁴, *ncac incidence: 9/27*, conc. range: 8–350 μg/kg, Ø conc.: 53.3 μg/kg, country: USA⁴¹⁶, *frozen incidence: 28/70*, conc. range: 4-235 µg/kg, Ø conc.: 201 μg/kg, country: USA⁴¹⁶, *canned incidence: 3/20* **, conc. range: 4-26 µg/kg, Ø conc.: 12.7 μg/kg, country: USA⁴¹⁶, *liquid, **canned incidence: 49/110, conc. range: 109-1148 μg/kg, country: Taiwan⁴¹⁷ incidence: 12/24* **, conc. range: ≤1089 $\mu g/kg$, \varnothing conc.: 400.4 $\mu g/kg$, country: Taiwan⁴¹⁸, *sweet, **canned incidence: 8/118* **, conc. range: 334-1614 μg/kg, country: Taiwan⁴¹⁹, *from Australia, Thailand, USA, **ncac incidence: 11/39*, conc. range: 22.4-119.4 μg/kg, country: Spain⁴²¹, *sweet incidence: 7/51*, conc. range: 16.5-211.3 μg/kg, country: Spain⁴²¹, *for popcorn incidence: 4/36*, conc. range: 17.6–88.5 ug/kg, country: Spain⁴²¹, *toasted

incidence: 13/27* **, conc. range: 186-2964 incidence: 46/46*, conc. range: tr-30,000 $\mu g/kg$, \varnothing conc.: 872 $\mu g/kg$, country: Japan⁴²², $\mu g/kg$, \varnothing conc.: 9500 $\mu g/kg$, country: USA⁷⁵⁸, *from China, **high-EC area *ncac incidence: 5/20* **, conc. range: 197-1732 incidence: 81/103*, conc. range: 70–1780 µg/kg, Ø conc.: 890 µg/kg, country: Japan⁴²², μg/kg, Ø conc.: 495 μg/kg, country: *from China, **low-EC area Nigeria⁷⁵⁹, *ncac incidence: 16/16, conc. range: 51-2440 µg/kg, incidence: 3/3*, conc. range: 240-295 µg/kg, Ø conc.: 788 μg/kg, country: Indonesia⁴²⁶ Ø conc.: 260 μg/kg, country: South Africa⁷⁶³, incidence: 6/6* **, conc. range: *from Mozambique 125,000–250,000 µg/kg, Ø conc.: 187,500 incidence: 7/8*, conc. range: 20-115 µg/kg, μg/kg, country: Italy⁴³³, *moldy, **ncac Ø conc.: 67.1 μg/kg, country: South Africa⁷⁶³, incidence: 71/100, conc. range: 43-1642 *from Malawi μg/kg, country: USA⁴⁵³ incidence: 1/2*, conc.: 125 μg/kg, country: incidence: 129/246, conc. range: 500-16,000 South Africa⁷⁶³, *from Zimbabwe μg/kg, country: China⁴⁷⁵ incidence: 1/1*, conc.: 780 μg/kg, country: incidence: 2/16*, conc. range: 2200–2400 South Africa⁷⁶³, *from Kenya μg/kg, Ø conc.: 2300 μg/kg, country: USA⁴⁷⁸, incidence: 8/9*, conc. range: 25–165 µg/kg, Ø *from China conc.: 79.4 µg/kg, country: South Africa⁷⁶³, incidence: 4/42* **, conc. range: *from Tanzania 150,000–250,000 μg/kg, \emptyset conc.: 202,500 incidence: 1/1*, conc.: 605 μg/kg, country: μg/kg, country: Italy⁴⁹⁴, *s, **ncac South Africa⁷⁶³, *from Uganda incidence: 20/22* **, conc. range: tr-300,000 incidence: 31/37, conc. range: 25–15,050 μg/kg, country: Italy⁵¹³, *vm, **ncac μg/kg, country: Venezuela⁷⁷⁷ incidence: 33/36*, conc. range: 100–168,800 incidence: 6/6, conc. range: 12,200-75,200 $\mu g/kg$, \varnothing conc.: 23,200 $\mu g/kg$, country: μg/kg, country: Burundi⁷⁷⁸ Korea⁵²⁷, *vm incidence: 23?/23?*, conc. range: 68–6555 incidence: 10/35*, conc. range: 90–12,500 μ g/kg, \varnothing conc.: 1357 μ g/kg, country: UK⁷⁹¹, µg/kg, Ø conc.: 3200 µg/kg, country: *from Honduras Korea527, *vh incidence: 187/249, conc. range: ≤5420 µg/kg, incidence: 8/8*, conc. range: 10–590 µg/kg, Ø Ø conc.: 450 μg/kg, country: South Africa⁷⁹⁸ conc.: 169 µg/kg, country: South Africa553, incidence: 10/36*, conc. range: ≤630 μg/kg, *from Iran Ø conc.: 205 μg/kg, country: South Africa⁷⁹⁹, incidence: 10/10, conc. range: 300–1500 *exported to Taiwan µg/kg, Ø conc.: 900 μg/kg, country: Côte incidence: 14/32*, conc. range: ≤865 µg/kg, d'Ivoire557 Ø conc.: 355 μg/kg, country: South Africa⁷⁹⁹, incidence: ?/96* **, conc. range: 400-77,200 *exported to Taiwan μg/kg***, country: USA⁶⁶⁸, *from Guatemala, incidence: 26/50* ** ***, conc. range: **nixtamalized, ***dw 57–1820 μg/kg, Ø conc.: 419 μg/kg, country: incidence: 8/15, conc. range: 25-2170 µg/kg, Japan⁸³², *from Philippines, **for seeds, food Ø conc.: 486 μg/kg, country: Colombia⁶⁷² and feed, ***and ground incidence: 12/12*, conc. range: 250-64,700 incidence: 19/27* ** ***, conc. range: μg/kg, country: India⁷²⁰, *ah incidence: ?/6*, conc. range: 50-240 µg/kg, 63–18,800 µg/kg, Ø conc.: 1580 µg/kg, country: Japan⁸³², *from Thailand, **for country: India⁷²⁰, *nah seeds, food and feed, ***and ground incidence: 139/139* **, conc. range: 10-100 incidence: 7/12* ** ***, conc. range: μg/kg (30 sa), 101-500 μg/kg (42 sa), 226–1780 μg/kg, Ø conc.: 843 μg/kg, country: 501–1000 μg/kg (28 sa), 1001–5000 μg/kg (39 Japan⁸³², *from Indonesia, **for seeds, food sa, with a maximum of 3406 µg/kg), country: UK⁷⁴⁵, *from different countries, **ncac and feed, ***and ground

incidence: 7/7*, conc. range: 280-33,450 μg/kg, Ø conc.: 6616 μg/kg, country: USA⁸³³, *ncac incidence: 7/7* **, conc. range: 365-3276 μg/kg, Ø conc.: 1428 μg/kg, country: USA⁸³³, *from People's Republic of China, **ncac incidence: 222/292* **, conc. range: 7.6–6341.7 µg/kg, country: UK⁸³⁸, *and from different countries, **includes sweetcorn, corn on the cob, baby food, corn oil, corn flour, polenta, maize meal, maize pasta, maize based snacks and tortillas incidence: 230/259, conc. range: 100-25,500 μg/kg, Ø conc.: 1927 μg/kg, country: China⁸⁶¹ incidence: 10/20, conc. range: <5960 µg/kg, Ø conc.: 1930 μg/kg, country: Morocco⁸⁶⁶ incidence: $32/52^*$, conc. range: $\leq 11,015$ μg/kg, country: Iran⁸⁶⁷, *for food and feed incidence: 4/4, conc. range: 680.8–1652.9 μg/kg, Ø conc.: 1193.9 μg/kg, country: USA⁸⁶⁹ see also arepas, asparagus, barley, batter, beans, beer, bran (maize), bread, cake (rice), cereals, cereals (breakfast), chamomile, chips (maize), chips (tortilla), flakes (corn), flour (maize), food, food (baby), foodstuff, grits (maize), Incaparina, leaves, maize fiber, maize muffin, maize products, maize silk, maize starch, masa, meal (maize), meal (sorghum), milk, muffin mix, nuts (peanut), pancake, popcorn, rapoko, rice, snacks, sorghum, soybeans, syrup (sorghum), tea, tortillas, wheat

Fumonisin B₂ incidence: 50/50*, conc. range: 40–9950 μg/kg,Ø conc.: 812 μg/kg, country: Argentina¹⁶⁷, *ncac incidence: 11/14*, conc. range: 60–1375 μg/kg,Ø conc.: 228.5 μg/kg, country: Denmark²⁰⁶, *from Ghana incidence: 10/15*, conc. range: 10–722 μg/kg,Ø conc.: 252.9 μg/kg, country: Denmark²⁰⁶, *from Ghana incidence: 1/6*, conc.: 319 μg/kg, country: Argentina²⁰⁸, *yellow incidence: 8/11*, conc. range: nd–640 μg/kg,Ø conc.: 210 μg/kg, country: Brazil²¹⁵, *degerminated

incidence: 6/11* **, conc. range: nd-210 $\mu g/kg$, \varnothing conc.: 150 $\mu g/kg$, country: Brazil²¹⁵, *sweet, **canned incidence: 29/30*, conc. range: 140-3060 μg/kg, Ø conc.: 1144 μg/kg, country: Argentina²³⁶, *ncac incidence: 3/49*, conc. range: 68.4-3084 μg/kg, Ø conc.: 1087.2 μg/kg, country: Croatia²⁴⁰, *ncac incidence: 20/34, conc. range: 50-4350 µg/kg, Ø conc.: 696 μg/kg, country: China²⁸⁵ incidence: 8/20, conc. range: 89-1220 µg/kg, Ø conc.: 591 μg/kg, country: China²⁸⁵ incidence: 11/20, conc. range: 56-890 µg/kg, Ø conc.: 257 μg/kg, country: China³⁰⁷ incidence: 7/20, conc. range: 54–104 µg/kg, Ø conc.: 76 µg/kg, country: China³⁰⁷ incidence: 17/27*, conc. range: 110-1140 μg/kg, Ø conc.: 200 μg/kg, country: Brazil³²⁶, *ncac incidence: 84/86*, conc. range: 80-5170 µg/kg, Ø conc.: 1090 μg/kg, country: Brazil³²⁶, *ncac incidence: 37/37*, conc. range: 200-6920 $\mu g/kg$, \varnothing conc.: 2200 $\mu g/kg$, country: Brazil³²⁶, *ncac incidence: 2/2, conc. range: 114–137 µg/kg, Ø conc.: 125.5 µg/kg, country: China³⁴² incidence: 33/57*, conc. range: 50-5240 μg/kg, country: Brazil³⁴⁹, *ncac incidence: 20/20*, conc. range: <50–1050 μg/kg, country: USA³⁵⁰, *ncac incidence: 23/23*, conc. range: 380-8600 µg/kg, Ø conc.: 1860 μg/kg, country: Brazil³⁵⁴, *ncac incidence: 22/55*, conc. range: 200-5900 µg/kg, Ø conc.: 1900 μg/kg, country: Spain³⁵⁵, *ncac incidence: 13/26* **, conc. range: 10–520 μg/kg, Ø conc.: 143.1 μg/kg, country: Italy³⁶⁰, *inbred lines, **ncac incidence: 9/9* ** ***, conc. range: 250–4450 μ g/kg, \varnothing conc.: 1211.3 μ g/kg, country: Italy³⁶⁰, *hybrids, **all grown in Portugal, ***ncac incidence: 11/19* ** ***, conc. range: 10 μg/kg, Ø conc.: 10 μg/kg, country: Italy³⁶⁰, *hybrids, **all grown in Croatia, ***ncac

incidence: 1/7* ** ***, conc.: 10 μg/kg, country: Italy³⁶⁰, *hybrides, **all grown in Poland, ***ncac incidence: 1/6* ** ***, conc. range: 10 µg/kg, country: Italy360, *hybrids, **all grown in Romania, ***ncac incidence: 5/9* **, conc. range: 20-680 μg/kg, \emptyset conc.: 184 µg/kg, country: Italy³⁶⁰, *hybrids, **all grown in Benin, ***ncac incidence: 15/20* ** ***, conc. range: 10–290 μg/kg, Ø conc.: 50.7 μg/kg, country: Italy³⁶⁰, *hybrids, **all grown in Zambia, ***ncac incidence: 2/2* ** ***, conc. range: 50-60 μ g/kg, Ø conc.: 55 μ g/kg, country: Italy³⁶⁰, *hybrids, **unknown origin, ***ncac incidence: 7/7*, conc. range: 30-1480 µg/kg, Ø conc.: 838.6 μg/kg, country: Italy³⁶², * ncac incidence: 6/6*, conc. range: 110-740 μg/kg, Ø conc. 397 μg/kg, country: Italy³⁶², *puffed incidence: 48/48*, conc. range: 1200-19,130 μg/kg, Ø conc.: 4213 μg/kg, country: Brazil³⁶⁷, *for food and feed incidence: 190/195* **, conc. range: 1960–29,160 μg/kg, Ø conc.: 7600 μg/kg, country: Brazil³⁸², *hybrids, **ncac incidence: 1/1* **, conc.: 1440 μg/kg, country: Japan³⁸⁷, *imported?, **ncac incidence: 3/12*, conc. range: 0-150 µg/kg, Ø conc.: 83 µg/kg, country: South Africa402, *good corn, low-EC area incidence: 10/12*, conc. range: ≤2250 μg/kg, Ø conc.: 610 μg/kg, country: South Africa⁴⁰², *good corn, high-EC area incidence: 11/11*, conc. range: 150–6750 μg/kg, Ø conc.: 2500 μg/kg, country: South Africa⁴⁰², *moldy corn intended for beer brewing or animal feed, low-EC area incidence: 12/12*, conc. range: 900-16,300 µg/kg, Ø conc.: 7550 μg/kg, country: South Africa⁴⁰², *moldy corn intended for beer brewing or animal feed, high-EC area incidence: 2/8*, conc. range: ≤970 μg/kg, Ø conc.: 515 µg/kg, country: South Africa402, *good corn, low-EC area incidence: 5/6*, conc. range: ≤1320 μg/kg, Ø conc.: 508 µg/kg, country: South Africa⁴⁰², *good corn, high-EC area

incidence: $6/7^*$, conc. range: $\leq 3700 \mu g/kg$, \varnothing conc.: 1277 µg/kg, country: South Africa⁴⁰², *moldy corn, low-EC area incidence: 6/6*, conc. range: 750-22,960 μg/kg, Ø conc.: 13,680 μg/kg, country: South Africa⁴⁰², *moldy corn, high–EC area incidence: 5/5* **, conc. range: 30–4020 μg/kg, Ø conc.: 918 μg/kg, country: USA410, *including 1 white maize sample, **ncac incidence: 1/1*, conc.: 20 μg/kg, country: USA410, *hominy incidence: 41/47* **, conc. range: <50–500 μg/kg, Ø conc.: 108.3 μg/kg, country: South Africa⁴¹¹, * imported from Argentina, **ncac incidence: 79/79* **, conc. range: 300–1200 μg/kg, Ø conc.: 668.5 μg/kg, country: South Africa⁴¹¹, * imported from USA, **ncac incidence: 17/17* **, conc. range: 325–2680 $\mu g/kg$, \varnothing conc.: 1137.4 $\mu g/kg$, country: South Africa⁴¹², *from Argentina, **ncac incidence: 6/7, conc. range: 70–460 µg/kg, country: South Africa413, *from USA incidence: 1/1*, conc.: 1092 µg/kg, country: USA⁴¹⁴, *ncac incidence: 2/110, conc. range: 222-255 µg/kg, Ø conc.: 238.5 μg/kg, country: Taiwan⁴¹⁷ incidence: 6/24* **, conc. range: ≤658 μg/kg, Ø conc.: 64.5 μg/kg, country: Taiwan⁴¹⁸, *sweet, **canned incidence: 3/27* **, conc. range: 298-550 μg/kg, Ø conc.: 448 μg/kg, country: Japan⁴²², *from China, **high-EC area incidence: 2/20* **, conc. range: 213-447 $\mu g/kg$, \varnothing conc.: 330 $\mu g/kg$, country: Japan⁴²², *from China, **low-EC area incidence: 8/16, conc. range: tr-376 µg/kg, country: Indonesia⁴²⁶ incidence: 4/16*, conc. range: 600–1000 μg/kg, Ø conc.: 800 μg/kg, country: USA⁴⁷⁸, from China incidence: 31/36*, conc. range: 70–48,400 μg/kg, Ø conc.: 7500 μg/kg, country: Korea⁵²⁷, *vm incidence: 8/35*, conc. range: 100-5400 μg/kg, Ø conc.: 1100 μg/kg, country: Korea⁵²⁷, *vh incidence: 2/8*, conc. range: 50–75 µg/kg, Ø conc.: 63 µg/kg, country: South Africa553, *from Iran

Fumonisin B₃

incidence: 5/15, conc. range: 21–833 µg/kg, Ø conc.: 307 µg/kg, country: Colombia⁶⁷² incidence: 37/46*, conc. range: tr-10,700 μg/kg, Ø conc.: 1700 μg/kg, country: USA⁷⁵⁸, *ncac incidence: 68/103*, conc. range: 53-230 μg/kg, Ø conc.: 114 μg/kg, country: Nigeria⁷⁵⁹, *ncac incidence: 3/3*, conc. range: 75–110 µg/kg, Ø conc.: 90 µg/kg, country: South Africa⁷⁶³, *from Mozambique incidence: 1/8*, conc.: 30 μg/kg, country: South Africa⁷⁶³, *from Malawi incidence: 1/2*, conc.: 40 μg/kg, country: South Africa⁷⁶³, *from Zimbabwe incidence: 1/1*, conc.: 275 µg/kg, country: South Africa⁷⁶³, *from Kenya incidence: 1/9*, conc.: 60 μg/kg, country: South Africa⁷⁶³, *from Tanzania incidence: 1/1*, conc.: 155 μg/kg, country: South Africa⁷⁶³, *from Uganda incidence: 114/249, conc. range: ≤1670 µg/kg, Ø conc.: 254 μg/kg, country: South Africa⁷⁹ incidence: $6/36^*$, conc. range: $\leq 250 \,\mu\text{g/kg}$, \varnothing conc.: 148 µg/kg, country: South Africa⁷⁹⁹, *exported to Taiwan incidence: 4/32*, conc. range: ≤120 μg/kg, Ø conc.: 101 µg/kg, country: South Africa799, *exported to Taiwan incidence: 6/50* **, conc. range: 58-1210 μg/kg, Ø conc.: 286 μg/kg, country: Japan⁸³², *from Philippines, **for seeds, food and feed incidence: 12/27* **, conc. range: 50-1400 μg/kg, Ø conc.: 251 μg/kg, country: Japan⁸³², *from Thailand, **for seeds, food and feed incidence: 3/12* **, conc. range: 231-556 μg/kg, Ø conc.: 442 μg/kg, country: Japan⁸³², *from Indonesia, **for seeds, food and feed incidence: 5/7*, conc. range: 32-4200 μg/kg, Ø conc.: 1167 μg/kg, country: USA⁸³³, *ncac incidence: 4/7* **, conc. range: 96-2834 μg/kg, Ø conc.: 1223 μg/kg, country: USA⁸³³, *from People's Republic of China, **ncac incidence: 65/292* **, conc. range: 6.3–1415.5 μg/kg, country: UK⁸³⁸, *and from different countries, **includes sweetcorn, corn on the cob, baby food, corn oil, corn flour, polenta, maize meal, maize pasta, maize based snacks and tortillas

incidence: 18/52*, conc. range: ≤3364 µg/kg, country: Iran⁸⁶⁷, *for food and feed see also arepas, asparagus, barley, batter, beer, bran (maize), cereals, cereals (breakfast), chips (maize), chips (tortilla), flakes (corn), flour (maize), food (baby), foodstuff, grits (maize), Incaparina, maize fiber, maize starch, masa, meal (maize), muffin mix, pancake, popcorn, rice, snacks, tortillas, wheat

incidence: 6/14*, conc. range: 68-226 µg/kg, Ø conc.: 114.5 μg/kg, country: Denmark²⁰⁶, *from Ghana incidence: 4/15*, conc. range: 72-224 µg/kg, \emptyset conc.: 151.8 µg/kg, country: Denmark²⁰⁶, *from Ghana incidence: 28/30*, conc. range: 90–1070 μg/kg, Ø conc.: 432 μg/kg, country: Argentina²³⁶, *ncac incidence: 15/34, conc. range: 55-1660 µg/kg, Ø conc.: 382 μg/kg, country: China²⁸⁵ incidence: 7/20, conc. range: 89–576 µg/kg, Ø conc.: 310 µg/kg, country: China²⁸⁵ incidence: 7/20, conc. range: 53–385 µg/kg, Ø conc.: 186 µg/kg, country: China³⁰⁷ incidence: 1/20, conc.: 70 μg/kg, country: China³⁰⁷ incidence: 2/2, conc. range: 32–59 µg/kg, Ø conc.: 45.5 µg/kg, country: China³⁴² incidence: 20/20*, conc. range: <50–420 μg/kg, country: USA³⁵⁰, *ncac incidence: 28/47* **, conc. range: <50–500 µg/kg, Ø conc.: 78.2 µg/kg, country: South Africa⁴¹¹, *from Argentina, **ncac incidence: 79/79* **, conc. range: 80–600 μg/kg, Ø conc.: 253.9 μg/kg, country: South Africa⁴¹¹, *from USA, **ncac incidence: 17/17* **, conc. range: 110-855 μg/kg, Ø conc.: 371.5 μg/kg, country: South Africa⁴¹², *from Argentina, **ncac incidence: 4/16, conc. range: 57–222 µg/kg, Ø conc.: 108 µg/kg, country: Indonesia⁴²⁶ incidence: 1/16*, conc.: 500 μg/kg, country: USA478, *from China incidence: 31/36*, conc. range: 50–10,600 µg/kg, Ø conc.: 6300 μg/kg, country: Korea⁵²⁷, *vm

incidence: 7/35*, conc. range: 50-500 µg/kg, Ø conc.: 300 μg/kg, country: Korea⁵²⁷, *vh incidence: 2/8*, conc. range: 50–75 µg/kg, Ø conc.: 63 µg/kg, country: South Africa553, *from Iran incidence: 3/3*, conc. range: 25-50 µg/kg, Ø conc.: 40 µg/kg, country: South Africa⁷⁶³, *from Mozambique incidence: 1/1*, conc.: 130 μg/kg, country: South Africa⁷⁶³, *from Kenya incidence: 1/1*, conc.: 85 μg/kg, country: South Africa⁷⁶³, *from Uganda incidence: 47/128, conc. range: ≤400 µg/kg, Ø conc.: 82.4 μg/kg, country: South Africa⁷⁹⁸ incidence: 2/7* **, conc. range: 230-545 μg/kg, Ø conc.: 388 μg/kg, country: USA⁸³³, *from People's Republic of China, **ncac incidence: 69/292* **, conc. range: 5.5-600.8 μg/kg, country: UK⁸³⁸, *and from different countries, **includes sweetcorn, corn on the cob, baby food, corn oil, corn flour, polenta, maize meal, maize pasta, maize based snacks and tortillas incidence: 16/52*, conc. range: ≤900 µg/kg, country: Iran⁸⁶⁷, *for food and feed

(maize), food (baby), Incaparina, meal (maize), pancake, popcorn, rice, snacks

Fumonisin B₁, Hydrolyzed (HBF₁) incidence: 1/1* **, conc.: pr, country: USA³⁶⁹,

see also barley, cereal products, cereals, flour

incidence: 1/1* **, conc.: pr, country: USA³⁶⁹ *yellow, **canned see also chips (tortilla), masa, tortillas

3–epi–Fumonisin B_3 incidence: 10/52*, conc. range: ≤191 µg/kg, country: Iran⁸⁶⁷, *for food and feed

Fumonisin

incidence: 16*/27, conc. range: <1000–12,000 µg/kg, country: UK²²⁰, *includes maize and maize products

Fumonisins (B₁, B₂) incidence: 21/21*, conc. range: 14–1036 µg/kg, country: Germany³⁷⁸, *from Argentina incidence: 199/209*, conc. range: 12–11,661 µg/kg, \varnothing conc.: 395.9 µg/kg, country: Croatia⁴⁶⁰, *ncac

incidence: 66/99* ** ****, conc. range: 50–4000 μg/kg, country: Switzerland⁵⁰², *imported, **and products, ***ncac see also beer, flour (maize), food (infant), meal (maize), noodles, rice, spice powder, spices (chilli pickle), spices (curry), spices (curry paste), spices (curry powder), spices (tandoori)

Fumonisins (B₁, B₂, B₃) incidence: 12/12, conc. range: <100–3500 μg/kg, country: USA³⁷⁰ incidence: 1/20*, conc.: 11 μg/kg, country: UK³⁸³, *sweetcorn see also bran (maize), cereals (breakfast), flour, flour (maize), germ (maize), grains, grits (maize), maize–based thickeners, popcorn, snacks, tortillas

Fumonisins (Total) incidence: 134/139* **, conc. range: 30–100 μg/kg (15 sa), 101–500 μg/kg (40 sa), 501–1000 μg/kg (30 sa), 1001–5000 μg/kg (48 sa), 5007 μg/kg (1 sa), country: UK⁷⁴⁵, *from different countries, **ncac

Fumonisins

incidence: 4/4* **, conc. range: 37–1400 μg/kg, Ø conc.: 411 μg/kg, country: Germany⁵⁶², *from Italy, USA, unknown origin, **o incidence: 147/150*, conc. range: 440-22,600 μg/kg, country: Brazil⁷⁸¹, *ncac incidence: 36/36*, conc. range: 870 µg/kg (1 sa), 1000–3000 μg/kg (1 sa), 3100–5000 μg/kg (6 sa), 5100–7000 μg/kg (6 sa), 7100–10,000 μg/kg (6 sa), 10,100-13,000 μg/kg (5 sa), 13,100-15,000 µg/kg (3 sa), 15,100-18,000 μg/kg (5 sa), 18,100–20,000 μg/kg (1 sa), 20,100-23,000 μg/kg (1 sa), 23,700 μg/kg (1 sa), country: Brazil⁷⁸², *ncac incidence: 28/33*, conc. range: 20-1270 µg/kg, Ø conc.: 247 μg/kg, country: Botswana⁸¹³, *and meal see also beer, bread, cereal (infant), chips (tortilla), flakes (corn), flour (maize), grits (maize), maize pops cereal, maize products, maize starch, maize (infant cream corn), meal (maize), muffin mix, pasta, popcorn, porridge, products, sorghum, tortillas

Fusaproliferin

incidence: 9/22* **, conc. range: 600–500,000 μ g/kg, \varnothing conc.: 72,222 μ g/kg, country: Italy⁵¹³, *vm, **ncac

Fusarenon X

incidence: 1/189*, conc.: 3.3 μg/kg, country: Saudi Arabia³²⁵, *ncac incidence: 9/93*, conc. range: 12–419 μg/kg, Ø conc.: 101.1 μg/kg, country: Italy⁴⁸¹, *ncac incidence: 5/15*, conc. range: 15–72 μg/kg, Ø conc.: 27 μg/kg, country: Korea⁵¹⁴, *ncac incidence: 2/5* ** ***, conc. range: 600–1800 μg/kg, Ø conc.: 1200 μg/kg, country: Italy⁵⁶³, *from Poland, **Fdk, ***ncac see also cereals (breakfast), flour (maize), food, oat products, spices (curry), spices (garlic)

Fusarin C

incidence: 1/78*, conc.: 76.8 μg/kg, country: Egypt⁴⁴⁴, *yellow, white, popcorn incidence: 2/2*, conc. range: 20–280 μg/kg, Ø conc.: 150 μg/kg, country: South Africa⁴⁴⁹, *ncac

HT-2 Toxin

incidence: 2/189*, conc. range: 3.1–6.5 µg/kg, \varnothing conc.: 4.8 µg/kg, country: Saudi Arabia³²⁵, *ncac

incidence: $3*/162^{**}$, conc. range: 53,000–645,000 µg/kg, Ø conc.: 294,333 µg/kg, country: Poland⁴³⁷, *hdk, **ncac incidence: $1/16^{*}$, conc.: 230 µg/kg, country: Canada⁵²¹, *ncac

Canada²²¹, *ncac see also barley, bran (oat), bran (wheat), bread, cereal (baby), cereals, cereals (breakfast), flakes (oat), flour (maize), flour (wheat), food, food (baby), germ (wheat), grits (maize), groats (oat), noodles, nuts (hazelnut), oat products, oats, products, pumpkin seeds, rye, spices (chilli powder), spices (curry), sunflower seeds, wheat

Moniliformin

incidence: 59/100, conc. range: tr–774 µg/kg, country: USA⁴⁵³ incidence: $6/12^*$, conc. range: 450–8530 µg/kg, \varnothing conc.: 3835 µg/kg, country: Poland⁴⁶³, *ncac

incidence: 15/29*, conc. range: >100-280 μg/kg, country: New Zealand⁴⁶⁸, *ncac incidence: 11/11* **, conc. range: 16,800-425,000 μg/kg, country: Austria⁴⁸⁷, *Fdk, **ncac incidence: 1/40* **, conc.: 200,000 μg/kg, country: Italy⁴⁹⁴, *s, **ncac incidence: 8/14* **, conc. range: 17,000–425,000 μg/kg, Ø conc.: 133,750 μg/kg, country: Poland⁴⁹⁵, *Fdk, **ncac incidence: 31/99* ** ***, conc. range: ≤1350 μg/kg, country: Switzerland⁵⁰², *imported, **and products, ***ncac incidence: 2/12*, conc. range: 60-200 µg/kg, Ø conc.: 130 μg/kg, country: Canada⁵²³, *ncac incidence: 4/4* **, conc. range: 50-90 µg/kg, Ø conc.: 72.5 μg/kg, country: UK⁵²⁴ *from USA, unknown origin, **retail incidence: 20/20* **, conc. range: 4200–399,300 μg/kg, Ø conc.: 97,710 μg/kg, country: Poland⁵²⁴, *Fdk, **ncac incidence: 1/1*, conc.: 16,000 μg/kg, country: South Africa⁵⁴¹, *vm incidence: 1/1*, conc.: 25,000 μg/kg, country: South Africa541, *Fdk incidence: 23/23*, conc. range: 24-522 µg/kg, Ø conc.: 141 μg/kg, country: UK⁷⁴³, *ncac incidence: 31/249, conc. range: <2040 µg/kg, country: South Africa⁷⁹⁸ incidence: 2/36*, conc. range: 320-390 µg/kg, Ø conc.: 355 μg/kg, country: South Africa⁷⁹⁹, *exported to Taiwan see also barley, corn on the cob, flakes (corn), flour (maize), foodstuff, grits (maize), maize-based thickeners, meal (maize), oats, popcorn, rye, snacks, triticale, wheat

Neosolaniol

incidence: 1/189*, conc.: 6.3 μg/kg, country: Saudi Arabia³²⁵, *ncac incidence: 2*/162**, conc. range: 19,400–27,200 μg/kg, Ø conc.: 23,300 μg/kg, country: Poland⁴³⁷, *hdk, **ncac see also cereals (breakfast), oat products, sorghum, spices (curry), spices (ginger), wheat

Nivalenol

incidence: 12/34, conc. range: 39–153 μg/kg, Ø conc.: 86 μg/kg, country: China²⁸⁵

incidence: 2/20, conc. range: 10–107 µg/kg, Ø incidence: 97/249, conc. range: ≤370 µg/kg, conc.: 59 µg/kg, country: China²⁸⁵ country: South Africa⁷⁹⁸ incidence: 1/2, conc.: 10 µg/kg, country: incidence: 2/32*, conc. range: 120 µg/kg, Ø China³⁴² conc.: 120 µg/kg, country: South Africa⁷⁹⁹, incidence: 2/16, conc. range: 49–169 µg/kg, Ø *exported to Taiwan conc.: 109 µg/kg, country: Indonesia⁴²⁶ incidence: 7/50* ** ***, conc. range: 18–102 incidence: 1/7, conc.: 1900 µg/kg, country: μ g/kg, \varnothing conc.: 43 μ g/kg, country: Japan⁸³², Poland⁴³⁸, *hdk, **ncac *from Philippines, **for seeds, food and feed, incidence: 24/24* **, conc. range: 54-2760 ***and ground μg/kg, Ø conc.: 757 μg/kg, country: China⁴⁵⁶, incidence: 1/292* **, conc.: 105.1 µg/kg, *and meal, **high EC area country: UK⁸³⁸, *and from different incidence: 16/46, conc. range: 6–366 µg/kg, Ø countries, **includes sweetcorn, corn on the conc.: 77 µg/kg, country: Korea⁴⁶² cob, baby food, corn oil, corn flour, polenta, incidence: 14/93*, conc. range: 7-240 μg/kg, maize meal, maize pasta, maize based snacks Ø conc.: 67.3 μg/kg, country: Italy⁴⁸¹, *ncac and tortillas incidence: ?/27*, conc. range: 4–53 μg/kg, Ø incidence: 7/12*, conc. range: 6.5-50.7 µg/kg, conc.: 11 µg/kg, country: China⁴⁹⁷, *high EC \emptyset conc.: 29 µg/kg, country: Japan⁸⁴³, area *imported incidence: 8/10*, conc. range: 17–68 µg/kg, Ø see also barley, beer, biscuits, bran (wheat), conc.: 34.3 µg/kg, country: China498, *high bread, cake, cereal (baby), cereals, cereals EC area (breakfast), flour, flour (barley), flour incidence: 5/5*, conc. range: 17–34 µg/kg, Ø (maize), flour (rye), flour (wheat), food, conc.: 22 μg/kg, country: China⁴⁹⁸, *medial germ (wheat), grits (maize), grits (wheat), EC area Job's-tears, malt (barley), meal (millet), incidence: 8/10*, conc. range: 8–68 µg/kg, Ø millet, noodles, oat products, oats, rice, rye, conc.: 19.8 µg/kg, country: China⁴⁹⁸, *low EC snacks, sorghum, soybeans, spices (chilli sauce), spices (curry), spices (curry paste), incidence: 1/3, conc.: 624 µg/kg, country: spices (curry powder), spices (garlic), spices Korea⁵⁰⁹ (ginger), spices (tandoori), wheat incidence: 8/15*, conc. range: 26-332 µg/kg, 4–Acetylnivalenol Ø conc.: 168 μg/kg, country: Korea⁵¹⁴, *ncac incidence: 5/46, conc. range: 23–139 µg/kg, Ø incidence: 6/41* **, conc. range: 130-680 conc.: 55 µg/kg, country: Korea⁴⁶² μg/kg, country: Canada⁵²¹, *includes Ontario, incidence: 14/36*, conc. range: 2-2200 µg/kg, **ncac Ø conc.: 400 μg/kg, country: Korea⁵²⁷, *vm incidence: 32/36*, conc. range: 6–15,600 incidence: 3/35*, conc. range: 4–30 µg/kg, Ø μg/kg, Ø conc.: 1700 μg/kg, country: conc.: 10 µg/kg, country: Korea⁵²⁷, *vh Korea⁵²⁷, *vm see also barley, wheat incidence: 6/35*, conc. range: 20–200 µg/kg, Ø conc.: 80 μg/kg, country: Korea⁵²⁷, *vh 4,15-Diacetylnivalenol incidence: 7/45*, Ø conc.: 766 μg/kg, incidence: 7/46, conc. range: 17–51 µg/kg, Ø country: Japan⁵³⁰, *ncac conc.: 29 μg/kg, country: Korea⁴⁶² incidence: 1/1* **, conc.: 12 μg/kg, country: see also barley Japan⁵³⁷, *from Canada, **ncac incidence: 6/9* **, Ø conc.: 892 μg/kg, OCHRATOXIN A country: Japan⁵³⁸, *from Nepal, **ncac incidence: 19/49*, conc. range: 0.9-2.54 incidence: 2/5* ** ***, conc. range: μg/kg, Ø conc.: 1.47 μg/kg, country: 33,200–42,500 μg/kg, Ø conc.: 37,850 μg/kg, Croatia²⁴⁰, *ncac country: Italy⁵⁶³, *from Poland, **Fdk, incidence: 7/23, conc. range: 60-870 µg/kg, ***ncac country: India²⁷²

incidence: 2/36*, conc. range: 128-206 µg/kg, incidence: 3/293*, conc. range: 83-166 µg/kg, Ø conc.: 167 μg/kg, country: Brazil³²³, *ncac Ø conc.: 123 μg/kg, country: USA⁸¹², *ncac incidence: 46/209*, conc. range: 0.26-614 $\mu g/kg$, \varnothing conc.: 52.9 $\mu g/kg$, country: Croatia⁴⁶⁰, *ncac incidence: 10/10, conc. range: 0.09-0.86 μg/kg, Ø conc.: 0.36 μg/kg, country: Côte d'Ivoire557 incidence: 3/40*, conc. range: 1.7–82 μg/kg, country: Germany⁵⁷⁷, *ncac incidence: 3/48, conc. range: 14-90 µg/kg, Ø conc.: 40.7 µg/kg, country: Yugoslavia⁶²⁹ incidence: 5/39*, conc. range: 1-5 µg/kg (4 sa), 11.2 μ g/kg (1 sa), country: UK⁶³⁶, *and from different countries? incidence: 1/7, conc.: 0.1 µg/kg, country: Germany⁶⁴⁰ incidence: 41/41, conc. range: 3-1738 µg/kg, country: Côte d'Ivoire⁶⁴² incidence: 6/22*, conc. range: 25-35 µg/kg, country: Bulgaria⁶⁵³, *BEN area incidence: 2/22*, conc. range: 10-25 µg/kg, country: Bulgaria⁶⁵³, *con incidence: 17/51*, conc. range: 0.02-40 μg/kg, country: Croatia⁶⁵⁵, *ncac incidence: 3/21, conc. range: 30–50 µg/kg, Ø conc.: 36.7 µg/kg, country: India⁶⁵⁶ incidence: 19/31, conc. range: ≤3.347 µg/kg, Ø conc.: 0.046 μg/kg, country: Germany⁶⁹⁰ incidence: 2/27*, conc. range: 12.8–14.7 $\mu g/kg$, \varnothing conc.: 13.7 $\mu g/kg$, country: Egypt⁷²¹, *white incidence: 19/36*, conc. range: 16.2–80 $\mu g/kg$, \varnothing conc.: 25.1 $\mu g/kg$, country: Egypt⁷²¹, *yellow incidence: 14/139* **, conc. range: 0.1-1 $\mu g/kg$ (12 sa), 1.1–4 $\mu g/kg$ (2 sa, with a maximum of 1.5 µg/kg), country: UK⁷⁴⁵, *from different countries, **ncac incidence: $2/167^*$ **, conc. range: $\approx 10 \mu g/kg$, country: Turkey⁷⁸³, *and imported, **ncac incidence: 1/22*, conc.: pr, country: India⁷⁸⁴, *ncac incidence: 46/209*, conc. range: 0.26-613.7 μg/kg, Ø conc.: 52.9 μg/kg, country:

Croatia⁷⁹², *for food and feed

country: USA811, *ncac

incidence: 1/283*, conc.: 110-150 µg/kg,

incidence: 1/12, conc.: 32 µg/kg, country: Brazil⁸¹⁶, *dried white incidence: 5/292* **, conc. range: 0.2-1.7 μg/kg, country: UK⁸³⁸, *and from different countries, **includes sweetcorn, corn on the cob, baby food, corn oil, corn flour, polenta, maize meal, maize pasta, maize based snacks and tortillas incidence: 8/20, conc. range: \leq 7.22 µg/kg, \varnothing conc.: 1.08 µg/kg, country: Morocco⁸⁶⁶ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork,

pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

OCHRATOXIN B

incidence: 3/23, conc. range: 30–420 µg/kg, \varnothing conc.: 170 µg/kg, country: India²⁷² incidence: 2/293*, conc. range: tr, country: USA⁸¹², *ncac

PENICILLIC ACID

incidence: 7/20* **, conc. range: 5–231 μg/kg, Ø conc. 59 μg/kg, country: USA⁷⁵², *mold damaged, **ncac see also beans, cassava, cheese

DIACETOXYSCIRPENOL

incidence: 1/189*, conc.: 3.1 μg/kg, country: Saudi Arabia³²⁵, *ncac incidence: 4/78*, conc. range: 98.4–128.4 μg/kg, country: Egypt⁴⁴⁴, *yellow, white, popcorn

incidence: 5/13*, conc. range: 30–900 μg/kg, Ø conc.: 388 μg/kg, country: New Zealand⁴⁵⁷, *ncac

incidence: 1/2, conc.: 130 μg/kg, country: New Zealand⁴⁵⁷

see also beans, beer, bran (wheat), cereals, nuts (peanut), oats, products, rice, soybeans, spices (chilli powder), spices (curry), wheat

Sterigmatocystin

incidence: 10/167* **, conc. range: 20 µg/kg, country: Turkey⁷⁸³, *and imported, **ncac see also barley, cassava, cheese, coffee, nuts (almond), nuts (pecan), nuts (pistachio), oil seed rape, rice, spices, spices (fennel), spices (pepper), wheat

TENUAZONIC ACID

incidence: 4/15*, conc. range: ≤253.6 µg/kg, country: Egypt²⁹¹, *yellow see also bran, cassava, fruits (mandarin fruit), olives, pulp (tomato), ragi, rice, sorghum, spices (pepper), sunflower seeds, tomato purée, tomatoes, wheat

TRICHOTHECENES

incidence: 25/34, conc. range: 13–1780 µg/kg, \varnothing conc.: 517 µg/kg, country: China²⁸⁵ incidence: 4/20, conc. range: 10–107 µg/kg, \varnothing conc.: 55 µg/kg, country: China²⁸⁵

T-2 Toxin

incidence: 1/189*, conc.: 6.3 µg/kg, country: Saudi Arabia³²⁵, *ncac incidence: 3*/162**, conc. range: 47,000–992,000 μg/kg, Ø conc.: 411,333 μg/kg, country: Poland⁴³⁷, *hdk, **ncac incidence: 4/78*, conc. range: 72.8-130.4 μg/kg, country: Egypt⁴⁴⁴, *yellow, white, popcorn incidence: 9/13*, conc. range: 5-200 µg/kg, Ø conc.: 88 µg/kg, country: New Zealand⁴⁵⁷, *ncac incidence: 6/86, conc. range: 550-2920 µg/kg, country: India526 incidence: 115/124*, conc. range: 78–650 μg/kg, country: Taiwan⁵⁴⁷, *from South Africa, USA

see also barley, beans, beer, bran (oat), bran (wheat), bread, cereals, cereals (breakfast), flakes (oat), flour, flour (maize), flour (wheat), food, grits (maize), nuts (hazelnut), nuts (peanut), oat products, oats, rice, rye, sorghum, spices (curry), spices (ginger), spices (tandoori), sunflower seeds, wheat

T-2 Tetraol

incidence: 1*/162**, conc.: 36,200 μg/kg, country: Poland⁴³⁷, *hdk, **ncac see also barley, bran (wheat), soybeans, wheat

T-2 Triol

incidence: $2*/162^{**}$, conc. range: 9700–14,500 µg/kg, \varnothing conc.: 12,100 µg/kg, country: Poland⁴³⁷, *hdk, **ncac see also oat products, wheat

incidence: 10/13*, conc. range: 200-16,000 ZEARALENONE incidence: 23/81* **, conc. range: 13-475 µg/kg, Ø conc.: 2640 μg/kg, country: New Zealand⁴⁵⁷, *ncac $\mu g/kg$, \varnothing conc.: 96.7 $\mu g/kg$, country: Canada²⁶, *domestic, **includes maize and incidence: 2/2, conc. range: 40–800 µg/kg, Ø maize products conc.: 420 µg/kg, country: New Zealand⁴⁵⁷ incidence: 1/61* **, conc.: 200 μg/kg, incidence: 8/46, conc. range: 4–388 μg/kg, Ø country: Canada²⁶, *imported, **includes conc.: 151 µg/kg, country: Korea⁴⁶² maize and maize products incidence: 69/91*, conc. range: 10-500 µg/kg, incidence: 65/214*, conc. range: 36.8-719 country: New Zealand⁴⁶⁸, *ncac $\mu g/kg$, \varnothing conc.: 155 $\mu g/kg$, country: Brazil²⁰⁵, incidence: 16/27*, conc. range: 14-169 µg/kg, *ncac Ø conc.: 44 μg/kg, country: China⁴⁹⁷, *high incidence: 2/15*, conc. range: 4–140 µg/kg, Ø EC area conc.: 48.8 μg/kg, country: Italy²²⁷, *ncac incidence: 1/20*, conc.: 39 μg/kg, country: incidence: 30/30*, conc. range: 3000-7000 China⁴⁹⁷, *low EC area μg/kg, Ø conc.: 5480 μg/kg, country: incidence: 1/10*, conc.: 7 μg/kg, country: Argentina²³⁶, *ncac China⁴⁹⁸, *high EC area incidence: 41/49*, conc. range: 0.43-39.12 incidence: 17/99* ** ***, conc. range: 10-100 $\mu g/kg$, \varnothing conc.: 3.84 $\mu g/kg$, country: µg/kg, Ø conc.: 30 μg/kg, country: Croatia²⁴⁰, *ncac Switzerland⁵⁰², *imported, **and products, incidence: 6/9*, conc. range: <50-50 μg/kg, country: Cameroon²⁴¹, *ncac incidence: 4/18*, conc. range: 3.4-5.8 µg/kg, incidence: 9/9*, conc. range: <50-1180 µg/kg, Ø conc.: 5 μg/kg, country: Korea⁵⁰⁶, *ncac country: Cameroon²⁴¹, *ncac incidence: 1/15*, conc.: 71 µg/kg, country: incidence: 19/34, conc. range: 11-170 µg/kg, Korea⁵¹⁴, *ncac Ø conc.: 63 μg/kg, country: China²⁸⁵ incidence: 108/203*, conc. range: 5-647 incidence: 1/20, conc.: 28 µg/kg, country: μg/kg, country: Canada⁵²¹, *ncac China²⁸⁵ incidence: 9/86, conc. range: 760-1500 µg/kg, incidence: 1/36*, conc.: 4640 μg/kg, country: country: India526 Brazil³²³, *ncac incidence: 32/36*, conc. range: 2-7300 μg/kg, incidence: 30/380*, conc. range: <54.2 µg/kg Ø conc.: 600 μg/kg, country: Korea⁵²⁷, *vm (1 sa), 54.2–100 μg/kg (4 sa), 100–500 μg/kg incidence: 7/35*, conc. range: 2–300 μg/kg, Ø (23 sa), $>500 \mu g/kg$ (2 sa), country: Brazil³²⁷, conc.: 70 µg/kg, country: Korea⁵²⁷, *vh incidence: 26/45*, Ø conc.: 165 µg/kg, incidence: 2/2, conc. range: 46–745 µg/kg, Ø country: Japan⁵³⁰, *ncac conc.: 395.5 µg/kg, country: China342 incidence: 1/1* **, conc.: 33 µg/kg, country: incidence: 7/8, conc. range: 5–20 µg/kg, Ø Japan⁵³⁷, *from Canada, **ncac conc.: 12 µg/kg, country: USA424 incidence: 15/20* **, Ø conc.: 6 μg/kg, incidence: 2/16, conc. range: 11–12 µg/kg, ∅ country: Japan⁵³⁸, *from Argentina, **ncac conc.: 11.5 µg/kg, country: Indonesia⁴²⁶ incidence: 1/3* **, conc.: 35 μg/kg, country: incidence: 3/3, conc. range: 900-9400 μg/kg, Japan⁵³⁸, *from Italy, **ncac Ø conc.: 4800 μg/kg, country: USA⁴²⁸ incidence: 5/9* **, Ø conc.: 819 μg/kg, incidence: 7/78*, conc. range: 22.6-80.4 country: Japan⁵³⁸, *from Nepal, **ncac μg/kg, country: Egypt⁴⁴⁴, *yellow, white, incidence: 4/12* **, Ø conc.: 10 μg/kg, popcorn country: Japan⁵³⁸, *from Yemen, **ncac incidence: 6/26, conc. range: 200-500 µg/kg, incidence: 1/1*, conc.: 4000 μg/kg, country: country: USA⁴⁴⁵ South Africa⁵⁴¹, *vm incidence: 6/6*, conc. range: 620-2000 µg/kg, Ø conc.: 1115 μg/kg, country: Portugal⁴⁵¹, incidence: 1/1*, conc.: 8000 μg/kg, country:

*ncac

South Africa⁵⁴¹, *Fdk

incidence: 73/82*, conc. range: 49-303 µg/kg, country: Taiwan⁵⁴⁷, *from South Africa, Thailand, USA incidence: 10/10, conc. range: 50 µg/kg, Ø conc.: 50 μg/kg, country: Côte d'Ivoire⁵⁵⁷ incidence: 2/4* **, conc. range: 49-92 µg/kg, Ø conc.: 70.5 μg/kg, country: Germany⁵⁶², *from Italy, USA, unknown origin, **o incidence: 5/5* ** ***, conc. range: 700–10,000 μg/kg, \varnothing conc.: 5400 μg/kg, country: Italy⁵⁶³, *from Poland, **Fdk, ***ncac incidence: 1/116* **, conc.: <5000 μg/kg, country: Spain⁵⁶⁵, *indian, white and yellow, incidence: 4/4*, conc. range: 7–2910 µg/kg, Ø conc.: 830 μg/kg, country: USA⁵⁶⁸, *ncac incidence: 135/139* **, conc. range: 4-20 μg/kg (13 sa), 21–100 μg/kg (63 sa), 101–500 μg/kg (58 sa), 584 μg/kg (1 sa), country: UK⁷⁴⁵, *from different countries, **ncac incidence: 9/150*, conc. range: 40-350 µg/kg, Ø conc.: 210 μg/kg, country: Argentina⁷⁶², *ncac incidence: 1/8*, conc.: 400 μg/kg, country: South Africa⁷⁶³, *from Malawi incidence: 1/1*, conc.: 40 μg/kg, country: South Africa⁷⁶³, *from Kenya incidence: 2/9*, conc. range: 40-80 µg/kg, Ø conc.: 60 μg/kg, country: South Africa⁷⁶³, *from Tanzania incidence: 2/22*, conc. range: pr, country: India⁷⁸⁴, *ncac incidence: 6/76*, conc. range: 100-200 µg/kg (2 sa), >200 µg/kg (4 sa), country: Uruguay⁷⁸⁷, *ncac incidence: 676/2271*, conc. range: ≤2000 μg/kg, country: Argentina⁷⁹⁰, *ncac incidence: ?/20, conc. range: 100-800 µg/kg, country: Zambia⁷⁹⁷ incidence: ?/17*, conc. range: 100-800 µg/kg, country: Zambia⁷⁹⁷, *for brewing incidence: 1/32*, conc.: 25 µg/kg, country: South Africa⁷⁹⁹, *exported to Taiwan incidence: 16/328*, conc. range: 260-9830 μg/kg, Ø conc.: 1910 μg/kg, country: Brazil⁸⁰¹, *ncac incidence: 2/283*, conc. range: nc, country: USA⁸¹¹, *ncac

μg/kg, Ø conc.: 590 μg/kg, country: USA⁸¹², *ncac incidence: 1/20*, conc.: 40 μg/kg, country: Botswana⁸¹³, *and meal incidence: 19/319*, conc. range: 38-204 μg/kg, Ø conc.: 117 μg/kg, country: USA820, *ncac incidence: 4/57* **, conc. range: 97-10,400 μg/kg, Ø conc.: 2100 μg/kg, country: USA⁸²⁰, *damaged, **ncac incidence: 2/50* ** ***, conc. range: 59–505 $\mu g/kg$, \varnothing conc.: 282 $\mu g/kg$, country: Japan⁸³², *from Philippines, **for seeds, food and feed, ***and ground incidence: 1/27* ** ***, conc.: 923 μg/kg, country: Japan⁸³², *from Thailand, **for seeds, food and feed, ***and ground incidence: 47/292* **, conc. range: 11–121.2 μg/kg, country: UK⁸³⁸, *and from different countries, **includes sweetcorn, corn on the cob, baby food, corn oil, corn flour, polenta, maize meal, maize pasta, maize based snacks and tortillas incidence: 3/20, conc. range: <17 µg/kg, Ø conc.: 14 μg/kg, country: Morocco⁸⁶⁶ see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

incidence: 5/293*, conc. range: 450-750

Maize and beans 214

Maize and beans may contain the following mycotoxins:

Aflatoxin B_1

incidence: 2/?, conc.: tr $-15 \mu g/kg$, country: Kenya⁷⁴⁶

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices

(mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂

incidence: 1/?, conc.: tr–5 μg/kg, country: Kenva⁷⁴⁶

see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Maize bran

see Bran (maize)

Maize chips

see Chips (maize)

Maize dough may contain the following mycotoxins:

AFLATOXIN B₁

incidence: 2/2*, conc. range: 19.6–63.9 μg/kg, country: Denmark²⁷⁸, *from Ghana

215 Maize dough

incidence: 2/2, conc. range: 0.5–293 μg/kg, country: Ghana²⁸⁰

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar,

sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂

incidence: 2/2*, conc. range: 2.9-5.6 µg/kg, country: Denmark²⁷⁸, *from Ghana incidence: 2/2, conc. range: 0.1-19.8 µg/kg, country: Ghana²⁸⁰ see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Aflatoxin G_1

incidence: 2/2*, conc. range: 72.8–106.5 μg/kg, country: Denmark²⁷⁸, *from Ghana incidence: 2*/2, conc. range: 0.4–102 μg/kg, country: Ghana²⁸⁰, *not all sa contaminated at all collection dates see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize

Maize dough 216

products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

AFLATOXIN G₂

country: Denmark²⁷⁸, *from Ghana incidence: 2*/2, conc. range: 0.1-12.3 µg/kg, country: Ghana²⁸⁰, *not all sa contaminated at all collection dates see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

incidence: 2/2*, conc. range: 3.9-7.8 µg/kg,

Aflatoxins

incidence: 19/20, conc. range: nd–249 $\mu g/kg$, country: Ghana²⁸⁰ see also beans, candy (peanut), candy (pistachio), cassava, figs, flour (maize), grain mixtures, grains, maize, maize products,

melon seeds, millet, nuts, nuts (almond), nuts (brazil), nuts (peanut), nuts (peanut butter), nuts (peanut mix), nuts (peanut products), nuts (pecan), nuts (pistachio), nuts (walnut), nuts and seeds, paste (peanut), paste (pipian), peas, rice, sauce (leaf), snacks, sorghum, spices, spices (chilli), spices (cumin), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper), spices (tandoori), teff, tubers, wheat

CITRININ

incidence: 2*/2, conc. range: 5–1082 μg/kg, country: Ghana²⁸⁰, *not all sa contaminated at all fermentation steps incidence: 20/20, conc. range: nd–585 μg/kg, country: Ghana²⁸⁰ see also angkak (red mold rice), barley, cereals, cheese, food, food colorant, fruits (apple), maize, meal (copra), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), oil seed rape, olives, rice, spices, spices (cardamom), spices (coriander), spices (cumin), spices (fennel), spices (pepper), spices (turmeric), wheat

Ochratoxin A

incidence: 5/20, conc. range: nd-6.4 µg/kg, country: Ghana²⁸⁰ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant),

217 Maize muffin

juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Maize fiber may contain the following mycotoxins:

Fumonisin B_1 incidence: 2/2, conc. range: 60–130 μg/kg, \varnothing conc.: 95 μg/kg, country: USA⁴¹⁰ see also arepas, asparagus, barley, batter, beans, beer, bran (maize), bread, cake (rice), cereals, cereals (breakfast), chamomile, chips (maize), chips (tortilla), flakes (corn), flour (maize), food, food (baby), foodstuff, grits (maize), Incaparina, leaves, maize, maize muffin, maize products, maize silk, maize starch, masa, meal (maize), meal (sorghum), milk, muffin mix, nuts (peanut), pancake, popcorn,

rapoko, rice, snacks, sorghum, soybeans, syrup (sorghum), tea, tortillas, wheat

Fumonisin B₂

incidence: 1/2, conc.: 30 µg/kg, country:

USA⁴¹⁰

see also arepas, asparagus, barley, batter, beer, bran (maize), cereals, cereals (breakfast), chips (maize), chips (tortilla), flakes (corn), flour (maize), food (baby), foodstuff, grits (maize), Incaparina, maize, maize starch, masa, meal (maize), muffin mix, pancake, popcorn, rice, snacks, tortillas, wheat

Maize flour

see Flour (maize)

Maize germ

see Germ (maize)

Maize grits

see Grits (maize)

Maize malt

see Malt (maize)

Maize meal

see Meal (maize)

Maize meal and semolina

see Meal (maize)

Maize muffin may contain the following mycotoxins:

Fumonisin B₁

incidence: 1/1*, conc.: 300 μg/kg, country:

USA³⁵⁶, *unprocessed

incidence: 1/1*, conc.: 400 μg/kg, country:

USA356, *processed

see also arepas, asparagus, barley, batter, beans, beer, bran (maize), bread, cake (rice), cereals, cereals (breakfast), chamomile, chips (maize), chips (tortilla), flakes (corn), flour (maize), food, food (baby), foodstuff, grits (maize), Incaparina, leaves, maize, maize fiber, maize products, maize silk, maize starch, masa, meal (maize), meal (sorghum), milk, muffin mix, nuts (peanut), pancake,

Maize muffin 218

popcorn, rapoko, rice, snacks, sorghum, soybeans, syrup (sorghum), tea, tortillas, wheat

Maize pops cereal may contain the following mycotoxins:

FUMONISINS

incidence: 1/1, conc.: 200 μg/kg, country: USA³⁵⁷

see also beer, bread, cereal (infant), chips (tortilla), flakes (corn), flour (maize), grits (maize), maize, maize products, maize starch, maize (infant cream corn), meal (maize), muffin mix, pasta, popcorn, porridge, products, sorghum, tortillas

Maize products may contain the following mycotoxins:

AFLATOXIN B₁

incidence: 8/8*, conc. range: 1–117 μg/kg, Ø conc.: 40 μg/kg, country: Japan³⁰⁰, *from Philippines

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts

(almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂

incidence: 6/8*, conc. range: 2–10 μg/kg, Ø conc.: 5 μg/kg, country: Japan³⁰⁰, *from Philippines

see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices

219 Maize silk

(coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Aflatoxin G₁ incidence: 1/8*, conc.: 4 µg/kg, country: Japan³⁰⁰, *from Philippines see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

Aflatoxins

incidence: 15/41, conc.: >30−≤400 µg/kg, country: Philippines³²

incidence: 19/139*, conc. range: ≤53 μg/kg, Ø conc.: 19.6 μg/kg, country: USA¹⁹⁷, *milled incidence: 4/11, conc. range: 0.1–5 μg/kg (1 sa), 11–20 μg/kg (1 sa), 21–35 μg/kg (1 sa), >50 μg/kg (1 sa), country: Malaysia³⁹¹ see also beans, candy (peanut), candy (pistachio), cassava, figs, flour (maize), grain mixtures, grains, maize, maize dough, melon seeds, millet, nuts, nuts (almond), nuts (brazil), nuts (peanut butter), nuts (peanut mix), nuts (peanut products), nuts (pecan), nuts (pistachio), nuts (walnut), nuts and seeds, paste (peanut), paste (pipian), peas, rice, sauce (leaf), snacks, sorghum, spices, spices (chilli), spices (cumin), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper), spices (tandoori), teff, tubers, wheat

Fumonisin B₁

incidence: 2/5, conc. range: 18.2–24 μg/kg, Ø conc.: 21.1 μg/kg, country: Korea³⁷⁵ see also arepas, asparagus, barley, batter, beans, beer, bran (maize), bread, cake (rice), cereals, cereals (breakfast), chamomile, chips (maize), chips (tortilla), flakes (corn), flour (maize), food, food (baby), foodstuff, grits (maize), Incaparina, leaves, maize, maize fiber, maize muffin, maize silk, maize starch, masa, meal (maize), meal (sorghum), milk, muffin mix, nuts (peanut), pancake, popcorn, rapoko, rice, snacks, sorghum, soybeans, syrup (sorghum), tea, tortillas, wheat

Fumonisins

incidence: 4/7*, conc. range: <9–115 μg/kg, country: Czech Republic⁶⁷⁰, *maize, gluten–free see also beer, bread, cereal (infant), chips (tortilla), flakes (corn), flour (maize), grits (maize), maize, maize pops cereal, maize starch, maize (infant cream corn), meal (maize), muffin mix, pasta, popcorn, porridge, products, sorghum, tortillas

Maize roti may contain the following mycotoxins:

Aflatoxin

incidence: 20/30*, conc. range: 1–≤9 µg/kg, country: India¹⁹⁴, *cooked see also barley, beer, bran (rice), flour (maize), injera, jars, kocho, maize, malt (barley), malt (maize), nuts (peanut), nuts (peanut butter), nuts (pistachio), oil (peanut), paste (pepper, red), rice, spices (pepper)

Maize silk may contain the following mycotoxins:

Maize silk 220

Fumonisin B₁

incidence: 9/15, conc. range: 50–150 μg/kg, country: Portugal³¹⁰

see also arepas, asparagus, barley, batter, beans, beer, bran (maize), bread, cake (rice), cereals, cereals (breakfast), chamomile, chips (maize), chips (tortilla), flakes (corn), flour (maize), food, food (baby), foodstuff, grits (maize), Incaparina, leaves, maize, maize fiber, maize muffin, maize products, maize starch, masa, meal (maize), meal (sorghum), milk, muffin mix, nuts (peanut), pancake, popcorn, rapoko, rice, snacks, sorghum, soybeans, syrup (sorghum), tea, tortillas, wheat

Maize snacks

see Snacks

Maize starch may contain the following mycotoxins:

Fumonisin B₁

incidence: 3/8, conc. range: 22.7–332 µg/kg, \varnothing conc.: 114 µg/kg, country: Korea³⁷⁵ incidence: 1/6, conc.: 260 µg/kg, country: Turkey³⁸¹

incidence: 1/1, conc.: 283 μg/kg, country: USA⁸³³

see also arepas, asparagus, barley, batter, beans, beer, bran (maize), bread, cake (rice), cereals, cereals (breakfast), chamomile, chips (maize), chips (tortilla), flakes (corn), flour (maize), food, food (baby), foodstuff, grits (maize), Incaparina, leaves, maize, maize fiber, maize muffin, maize products, maize silk, masa, meal (maize), meal (sorghum), milk, muffin mix, nuts (peanut), pancake, popcorn, rapoko, rice, snacks, sorghum, soybeans, syrup (sorghum), tea, tortillas, wheat

Fumonisin B₂

incidence: 1/1, conc.: 70 μg/kg, country: USA⁸³³

see also arepas, asparagus, barley, batter, beer, bran (maize), cereals, cereals (breakfast), chips (maize), chips (tortilla), flakes (corn), flour (maize), food (baby), foodstuff, grits (maize), Incaparina, maize, maize fiber, masa, meal (maize), muffin mix, pancake, popcorn, rice, snacks, tortillas, wheat

FUMONISINS

incidence: 1/1, conc.: 500 μg/kg, country: USA³⁵⁷

see also beer, bread, cereal (infant), chips (tortilla), flakes (corn), flour (maize), grits (maize), maize, maize pops cereal, maize products, maize (infant cream corn), meal (maize), muffin mix, pasta, popcorn, porridge, products, sorghum, tortillas

Maize teff

see Teff

Maize (infant cream corn) may contain the following mycotoxins:

FUMONISINS

incidence: 1/1, conc.: 200 μg/kg, country: USA³⁵⁷

see also beer, bread, cereal (infant), chips (tortilla), flakes (corn), flour (maize), grits (maize), maize, maize pops cereal, maize products, maize starch, meal (maize), muffin mix, pasta, popcorn, porridge, products, sorghum, tortillas

Maize-based thickeners may contain the following mycotoxins:

Fumonisins (B_1, B_2, B_3)

incidence: 4/21, conc. range: 14–110 μ g/kg, country: UK³⁸³

see also bran (maize), cereals (breakfast), flour, flour (maize), germ (maize), grains, grits (maize), maize, popcorn, snacks, tortillas

Moniliformin

incidence: 1/20, conc.: 29 μg/kg, country: UK⁷⁴³

see also barley, corn on the cob, flakes (corn), flour (maize), foodstuff, grits (maize), maize, meal (maize), oats, popcorn, rye, snacks, triticale, wheat

Malaga

see Wine

Malt may contain the following mycotoxins:

OCHRATOXIN A

incidence: 1/2, conc. range: 1.5–9.99 μg/kg, country: Germany⁶²³

221 Malt (barley)

incidence: 13/57, conc. range: 0.1-10.7 µg/kg, country: Germany⁶⁴⁰ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard),

spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Malt (barley) may contain the following mycotoxins:

Aflatoxin

incidence: $9/42^*$, conc. range: $1-5 \mu g/kg$ (7 sa), $\leq 14 \mu g/kg$ (2 sa), country: Czechoslovakia⁵⁵, *probably barley see also barley, beer, bran (rice), flour (maize), injera, jars, kocho, maize, maize roti, malt (maize), nuts (peanut), nuts (peanut butter), nuts (pistachio), oil (peanut), paste (pepper, red), rice, spices (pepper)

Deoxynivalenol

incidence: 13/42, conc. range: 10-20 µg/kg (5 sa), 20–100 μg/kg (8 sa), country: UK⁴⁵⁰ incidence: 4/4, conc. range: 22–5840 µg/kg, Ø conc.: 1595 µg/kg, country: Korea⁴⁶⁹ incidence: 5/5, conc. range: 118-2476 µg/kg, Ø conc.: 782 μg/kg, country: Korea⁴⁷⁰ incidence: 5/13, conc. range: 7-140 µg/kg, country: Canada⁵²¹ incidence: 23/30, conc. range: 20-49 µg/kg (13 sa), 50-99 μg/kg (9 sa), 311 μg/kg (1 sa), country: UK774 see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

Malt (barley) 222

Nivalenol

incidence: 4/4, conc. range: 122–436 μg/kg, Ø conc.: 243 μg/kg, country: Korea⁴⁶⁹ incidence: 5/5, conc. range: 631–2675 μg/kg, Ø conc.: 1459 μg/kg, country: Korea⁴⁷⁰ see also barley, beer, biscuits, bran (wheat), bread, cake, cereal (baby), cereals,cereals (breakfast), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, germ (wheat), grits (maize), grits (wheat), Job's-tears, maize, meal (millet), millet, noodles, oat products, oats, rice, rye, snacks, sorghum, soybeans, spices (chilli sauce), spices (curry), spices (curry paste), spices (curry powder), spices (garlic), spices (ginger), spices (tandoori), wheat

OCHRATOXIN A

incidence: 11/94, conc. range: 0.03–1.2 μg/kg, country: Germany⁵⁹⁶

incidence: 23/24, conc. range: 0.5–6.6 μg/kg, country: Turkey⁶⁰⁸

incidence: 4/30*, conc. range: 0.3–0.9 μ g/kg (2 sa), 2.5–4.9 μ g/kg (1 sa), 13.8 μ g/kg** (1 sa), country: UK⁷⁷⁴, *unacceptable for malting

incidence: 1/85, conc.: 12 μg/kg, country: Germany⁸⁵²

see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney

(poultry), knäckebröd, lentils, linseeds, ligourice, ligourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

OCHRATOXIN B

incidence: 5/94, conc. range: 0.02–0.04 μg/kg, country: Germany⁵⁹⁶ see also barley, bread

ZEARALENONE

incidence: 4/4, conc. range: 2–36 µg/kg, \varnothing conc.: 19 µg/kg, country: Korea⁴⁶⁹ incidence: 5/5, conc. range: 3–48 µg/kg, \varnothing conc.: 23 µg/kg, country: Korea⁴⁷⁰ see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits

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(maize), Job's-tears, maize, malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Malt (maize) may contain the following mycotoxins:

Aflatoxin

incidence: 1/13, conc.: 1.71 μg/kg, country: Zambia⁷⁹⁷

see also barley, beer, bran (rice), flour (maize), injera, jars, kocho, maize, maize roti, malt (barley), nuts (peanut), nuts (peanut butter), nuts (pistachio), oil (peanut), paste (pepper, red), rice, spices (pepper)

Zearalenone

incidence: ?/13, conc. range: 800–4000 μg/kg, country: Zambia⁷⁹⁷

see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Malt (wheat) may contain the following mycotoxins:

Deoxynivalenol

incidence: 4/4, conc. range: 20–49 μ g/kg (1 sa), 50–99 μ g/kg (1 sa), 100–249 μ g/kg (2 sa, with a maximum of 110 μ g/kg), country: UK⁷⁷⁴

see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

Malt drink

see Drink (malt)

Malting - barley

see Malt (barley)

Malting – wheat

see Malt (wheat)

Mandarin fruits

see Fruits (mandarin fruit)

Mango

see Fruits (mango)

Mango juice

see Juice (mango)

Marchpane

see Marzipan (almond paste)

Maribo cheese 224

Maribo cheese

see Cheese

Marzipan (almond paste) may contain the following mycotoxins:

Aflatoxin B₁

incidence: 1/168, conc.: 39 μg/kg, country: Finland¹³⁸

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices

(cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂

incidence: 1/168, conc.: 7 μg/kg, country: Finland¹³⁸

see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Masa may contain the following mycotoxins:

Fumonisin B₁

incidence: 3/3, conc. range: 40–380 μ g/kg, \varnothing conc.: 163 μ g/kg, country: USA³⁶⁴ incidence: 1/1, conc.: 17 μ g/kg, country: USA³⁶⁹

incidence: 8/8, conc. range: 63–689 μ g/kg, \varnothing conc.: 262 μ g/kg, country: USA/Mexico⁴⁰⁹

225 Meal (barley)

incidence: 2/4, conc. range: 103.9–196.9 μg/kg, Ø conc.: 150.4 μg/kg, country: USA⁸⁶⁹ see also arepas, asparagus, barley, batter, beans, beer, bran (maize), bread, cake (rice), cereals, cereals (breakfast), chamomile, chips (maize), chips (tortilla), flakes (corn), flour (maize), food, food (baby), foodstuff, grits (maize), Incaparina, leaves, maize, maize fiber, maize muffin, maize products, maize silk, maize starch, meal (maize), meal (sorghum), milk, muffin mix, nuts (peanut), pancake, popcorn, rapoko, rice, snacks, sorghum, soybeans, syrup (sorghum), tea, tortillas, wheat

Fumonisin B₂

incidence: 2/3, conc. range: 110–1380 μg/kg, Ø conc.: 553 μg/kg, country: Mexico³⁶⁴ incidence: 1/3, conc.: 60 μg/kg, country: USA³⁶⁴

see also arepas, asparagus, barley, batter, beer, bran (maize), cereals, cereals (breakfast), chips (maize), chips (tortilla), flakes (corn), flour (maize), food (baby), foodstuff, grits (maize), Incaparina, maize, maize fiber, maize starch, meal (maize), muffin mix, pancake, popcorn, rice, snacks, tortillas, wheat

Fumonisin B₁, Hydrolyzed (HBF₁) incidence: 1/2, conc.: 100 μg/kg, country: Mexico³⁶⁴ incidence: 1/1, conc.: pr, country: USA³⁶⁹ see also chips (tortilla), maize, tortillas

Mchuzi mix may contain the following mycotoxins:

Aflatoxin B₁

incidence: 1/?, conc.: 25 μg/kg, country: Kenya⁷⁴⁶

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour,

flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Meal (barley) may contain the following mycotoxins:

DEOXYNIVALENOL incidence: 1/1* ** ***, conc.: 32 μg/kg, country: Germany⁵⁶², *unknown origin, **whole, ***c

Meal (barley) 226

see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

Zearalenone

incidence: 1/1* ** ***, conc.: 6.4 μg/kg, country: Germany⁵⁶², *unknown origin, **whole. ***c

see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Meal (buckwheat) may contain the following mycotoxins:

OCHRATOXIN A

incidence: 5/15*, conc. range: ≤12.07 μg/kg, Ø conc.: 0.965 μg/kg, country: Germany⁶⁹⁰, *whole see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices

227 Meal (cottonseed)

(turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Meal (cereal) may contain the following mycotoxins:

OCHRATOXIN A

incidence: 26/52, conc. range: 0.1–0.19 μg/kg (3 sa), 0.2–0.49 μg/kg (8 sa), 0.5–1.49 μg/kg (13 sa), 1.5–9.99 μg/kg (2 sa), country: Germany⁶²³

incidence: 3/80*, conc. range: 0.4 μg/kg, Ø conc.: 0.4 µg/kg, country: Germany⁶⁴⁰, *wheat, spelt, unripe spelt grain see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, ligourice, ligourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle,

pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Meal (copra) may contain the following mycotoxins:

CITRININ

incidence: 4/384, conc. range: 10–60 µg/kg, \varnothing conc.: 30 µg/kg, country: India⁷⁹⁴ see also angkak (red mold rice), barley, cereals, cheese, food, food colorant, fruits (apple), maize, maize dough, nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), oil seed rape, olives, rice, spices, spices (cardamom), spices (coriander), spices (cumin), spices (fennel), spices (pepper), spices (turmeric), wheat

Meal (cottonseed) may contain the following mycotoxins:

AFLATOXIN B₁

incidence: 2/14*, conc. range: 6–20 μg/kg (1 sa), 30 μg/kg (1 sa), country: Guatemala³³, *ncac

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour,

Meal (cottonseed) 228

flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Meal (egusi) may contain the following mycotoxins:

AFLATOXIN B incidence: 1/1, conc.: 186 μg/kg, country: Nigeria⁴ see also emu aran, ogbono, ogili–ugba, ogoro

Meal (maize) may contain the following mycotoxins:

AFLATOXIN B₁ incidence: 14/?, conc. range: tr-50 µg/kg, country: Kenya⁷⁴⁶ see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger),

spices (Indian cassia), spices (ingwer), spices

(mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxin B_2 incidence: 10/?, conc. range: tr-10 µg/kg, country: Kenya⁷⁴⁶ see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds,

AFLATOXINS (B_1 , B_2 , G_1) incidence: 4/13, conc. range: <5 µg/kg (1 sa), 6–20 µg/kg (1 sa), 21–50 µg/kg (1 sa), 96 µg/kg (1 sa) country: Guatemala³³ see also coffee, maize, nuts (peanut), rice

Deoxynivalenol

wheat, wine

incidence: 7/11, conc. range: 2000–19,000 μ g/kg, \varnothing conc.: 5800 μ g/kg, country: USA⁴²⁴ incidence: 8/16*, conc. range: 500–1600 μ g/kg, \varnothing conc.: 1112.5 μ g/kg, country: USA⁴⁷⁸, *from China

incidence: 44/50, conc. range: ≤300 µg/kg, country: USA561 incidence: 2/2* **, conc. range: 500-870 μg/kg, Ø conc.: 685 μg/kg, country: Germany⁵⁶², *and unknown origin, **o see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

Fumonisin B₁

incidence: 3/3, conc. range: 603–1171 μg/kg, Ø conc.: 810.7 μg/kg, country: Argentina²⁰⁸ incidence: 9/9, conc. range: 560–4930 μg/kg, Ø conc.: 2290 μg/kg, country: Brazil²¹⁵ incidence: 3/3*, conc. range: 1500–4700 μg/kg, Ø conc.: 2933 μg/kg, country: USA³⁵⁶, *unprocessed

incidence: $1/3^*$, conc.: 100 µg/kg, country: USA³⁵⁶, *processed

incidence: 6/6*, conc. range: 210–840 µg/kg, Ø conc.: 573.3 µg/kg, country: USA³⁶⁹, *white and yellow

incidence: 15/33, conc. range: 250–2660 µg/kg, \varnothing conc.: 775.3 µg/kg, country: Turkey³81

incidence: 7/7*, conc. range: 400–6320 µg/kg, \varnothing conc.: 1906 µg/kg, country: USA³⁸⁴, *includes one self–rising white and one blue maize meal

incidence: 2/7, conc. range: \leq 110 µg/kg, \otimes conc.: 85 µg/kg, country: Switzerland⁴⁰⁰ incidence: ?/3*, conc. range: 500–1000 µg/kg, country: USA⁴⁰³, *yellow incidence: ?/3*, conc. range: 600–1200 µg/kg, country: USA⁴⁰³, *white

incidence: 1/3, conc.: 70 µg/kg, country: Spain⁴⁰⁴ incidence: 17/17*, conc. range: 280-2050 $\mu g/kg$, \varnothing conc.: 817.1 $\mu g/kg$, country: USA⁴¹⁰, *and Venezuela incidence: 65/74*, conc. range: 50-2980 μg/kg, Ø conc.: 423.7 μg/kg, country: South Africa⁴¹³, *and from Canada, Egypt, Peru, USA incidence: 7/16*, conc. range: 600-8800 µg/kg, Ø conc.: 2128.6 μg/kg, country: USA⁴⁷⁸, *from China incidence: 89/89*, conc. range: 171-5825 μg/kg, Ø conc.: 1673 μg/kg, country: South Africa⁶¹⁵, *from Brazil incidence: 13/15*, conc. range: 25-230 µg/kg, Ø conc.: 118 μg/kg, country: Colombia⁶⁷², *pre-cooked incidence: 4/7, conc. range: 36–408 µg/kg, Ø conc.: 216 µg/kg, country: Colombia⁶⁷² incidence: 2/2, conc. range: 60–70 µg/kg, Ø conc.: 65 µg/kg, country: South Africa⁷⁶³ incidence: 1/1*, conc.: 740 µg/kg, country: South Africa⁷⁶³, *from Zambia incidence: 4/4*, conc. range: 55-1910 µg/kg, Ø conc.: 625 μg/kg, country: South Africa⁷⁶³, *from Zimbabwe incidence: 19/21, conc. range: 60-2860 µg/kg, Ø conc.: 556 μg/kg, country: Argentina⁸¹⁷ see also arepas, asparagus, barley, batter, beans, beer, bran (maize), bread, cake (rice), cereals, cereals (breakfast), chamomile, chips (maize), chips (tortilla), flakes (corn), flour (maize), food, food (baby), foodstuff, grits (maize), Incaparina, leaves, maize, maize fiber, maize muffin, maize products, maize silk, maize starch, masa, meal (sorghum), milk, muffin mix, nuts (peanut), pancake, popcorn, rapoko, rice, snacks, sorghum, soybeans, syrup (sorghum), tea, tortillas, wheat

milk, muffin mix, nuts (peanut), pancake, popcorn, rapoko, rice, snacks, sorghum, soybeans, syrup (sorghum), tea, tortillas, wheat

FUMONISIN B₂
incidence: 1/3, conc.: 717 μg/kg, country:

Argentina²⁰⁸
incidence: 9/9, conc. range: 210–1380 μg/kg,

Ø conc.: 600 μg/kg, country: Brazil²¹⁵

FUMONISIN B₃
incidence: 6/6*
USA³⁶⁹, *white incidence: 2/16
Ø conc.: 750 μ
China
incidence: 89/8
incidence: 1/3 *from Brazil
incidence: 1/1*
South Africa⁷⁶³

incidence: 6/6*, conc. range: 33–414 µg/kg, Ø conc.: 172.5 µg/kg, country: USA³⁶⁹, *white and vellow incidence: 1/33, conc.: 550 µg/kg, country: Turkev³⁸¹ incidence: 17/17*, conc. range: 50-530 µg/kg, Ø conc.: 193.5 μg/kg, country: USA⁴¹⁰, *and Venezuela incidence: 27/74*, conc. range: ≤920 µg/kg, Ø conc.: 390.5 μg/kg, country: South Africa⁴¹³, *and from Canada, Egypt, Peru, USA incidence: 4/16*, conc. range: 500–2800 μg/kg, Ø conc.: 1225 μg/kg, country: USA⁴⁷⁸, *from China incidence: 89/89*, conc. range: 28-1687 μg/kg, Ø conc.: 415 μg/kg, country: South Africa⁶¹⁵, *from Brazil incidence: 7/15*, conc. range: 33–81 µg/kg, Ø conc.: 43 µg/kg, country: Colombia⁶⁷², *pre-cooked incidence: 2/7, conc. range: 65–105 µg/kg, Ø conc.: 85 µg/kg, country: Colombia⁶⁷² incidence: 1/1*, conc.: 380 μg/kg, country: South Africa⁷⁶³, *from Zambia incidence: 2/4*, conc. range: 150-620 µg/kg, Ø conc.: 385 μg/kg, country: South Africa⁷⁶³, *from Zimbabwe incidence: 19/21, conc. range: 61-1090 µg/kg, Ø conc.: 232 μg/kg, country: Argentina⁸¹⁷ see also arepas, asparagus, barley, batter, beer, bran (maize), cereals, cereals (breakfast), chips (maize), chips (tortilla), flakes (corn), flour (maize), food (baby), foodstuff, grits (maize), Incaparina, maize, maize fiber, maize starch, masa, muffin mix, pancake, popcorn, rice, snacks, tortillas, wheat Fumonisin B₃ incidence: 6/6*, conc. range: pr, country: USA³⁶⁹, *white and yellow incidence: 2/16*, conc. range: 600-900 μg/kg, Ø conc.: 750 μg/kg, country: USA⁴⁷⁸, *from incidence: 89/89*, conc. range: 16-549 µg/kg, Ø conc.: 154 μg/kg, country: South Africa⁶¹⁵, incidence: 1/1*, conc.: 85 μg/kg, country: South Africa⁷⁶³, *from Zambia

incidence: $2/4^*$, conc. range: 55-205 µg/kg, \varnothing conc.: 130 µg/kg, country: South Africa⁷⁶³, *from Zimbabwe

incidence: 19/21, conc. range: 18–1015 µg/kg, \varnothing conc.: 150 µg/kg, country: Argentina⁸¹⁷ see also barley, cereal products, cereals, flour (maize), food (baby), Incaparina, maize, pancake, popcorn, rice, snacks

Fumonisins (B_1, B_2)

incidence: 34/37*, conc. range: ≤6617 µg/kg, Ø conc.: 823 µg/kg, country: Germany²⁴⁴, *and semolina see also beer, flour (maize), food (infant), maize, noodles, rice, spice powder, spices (chilli pickle), spices (curry), spices (curry paste), spices (curry powder), spices

(tandoori) Fumonisins

incidence: $4/4^*$, conc. range: 650-7450 µg/kg, \varnothing conc.: 3075 µg/kg, country: USA³⁵⁷, *white incidence: $6/6^*$, conc. range: 450-4750 µg/kg, \varnothing conc.: 1558 µg/kg, country: USA³⁵⁷, *yellow

incidence: 1/2* **, conc.: 7.1 μg/kg, country: Germany⁵⁶², *and unknown origin, **o see also beer, bread, cereal (infant), chips (tortilla), flakes (corn), flour (maize), grits (maize), maize, maize pops cereal, maize products, maize starch, maize (infant cream corn), muffin mix, pasta, popcorn, porridge, products, sorghum, tortillas

Moniliformin

incidence: 26/26*, conc. range: 50–180 μg/kg, Ø conc.: 85.6 μg/kg, country: UK⁵²⁴ *and from France, USA, unknown origin see also barley, corn on the cob, flakes (corn), flour (maize), foodstuff, grits (maize),maize, maize–based thickeners, oats, popcorn, rye, snacks, triticale, wheat

OCHRATOXIN A

incidence: 1/6*, conc.: 0.4 μg/kg, country: Hungary⁵⁹³, *coarse see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals,

cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

ZEARALENONE

incidence: 3/11, conc. range: 8-100 µg/kg, Ø conc.: 38 μg/kg, country: USA⁴²⁴ incidence: 2/16*, conc. range: 500 µg/kg, Ø conc.: 500 μg/kg, country: USA⁴⁷⁸, *from China incidence: 2/2* **, conc. range: 38-65 µg/kg, Ø conc.: 51.5 μg/kg, country: Germany⁵⁶², *and unknown origin, **o incidence: 9/11, conc. range: 11-69 µg/kg, Ø conc.: 33.1 μg/kg, country: USA⁵⁶⁷ incidence: 7/9, conc. range: 3.2-120 µg/kg, Ø conc.: 23 μg/kg, country: USA⁸³¹ see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper),

Meal (millet) may contain the following mycotoxins:

sunflower seeds, vegetables, wheat

Deoxynivalenol

incidence: 1/1*, conc.: 720 µg/kg, country: Papua, New Guinea⁵⁷⁴, *from Australia see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits

(barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

Nivalenol

incidence: 1/1*, conc.: 1540 µg/kg, country: Papua, New Guinea⁵⁷⁴, *from Australia see also barley, beer, biscuits, bran (wheat), bread, cake, cereal (baby), cereals,cereals (breakfast), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, germ (wheat), grits (maize), grits (wheat), Job's-tears, maize, malt (barley), millet, noodles, oat products, oats, rice, rye, snacks, sorghum, soybeans, spices (chilli sauce), spices (curry), spices (curry paste), spices (curry powder), spices (garlic), spices (ginger), spices (tandoori), wheat

Zearalenone

incidence: 1/1*, conc.: 440 µg/kg, country: Papua, New Guinea⁵⁷⁴, *from Australia see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

233 Meal (pistachio)

Meal (peanut) may contain the following mycotoxins:

Aflatoxin B_1

incidence: 3/4*, conc. range: 112–6500 μg/kg, country: USA³⁶, *ncac

incidence: 1/1*, conc.: 35.7 μg/kg, country: USA¹⁰⁰, *ncac

incidence: 1/1* **, conc.: 269 μg/kg, country: USA¹⁰⁰, *de–oiled, **ncac

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices

(chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Meal (pistachio) may contain the following mycotoxins:

Aflatoxin B_1

incidence: 1/1*, conc.: 61 µg/kg, country: Denmark¹⁹³, *imported see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil

Meal (pistachio) 234

(peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices (sammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂ incidence: 1/1*, conc.: 5.6 µg/kg, country: Denmark¹⁹³, *imported see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Meal (posho) may contain the following mycotoxins:

AFLATOXIN B₁ incidence: 3/?, conc. range: tr–50 μg/kg, country: Kenya⁷⁴⁶

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cavenne),

235 Meal (rye)

spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂ incidence: 2/?, conc. range: tr, country: Kenya⁷⁴⁶

see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Meal (protein supplement) may contain the following mycotoxins:

AFLATOXINS (B₁, B₂) incidence: 6/19, conc. range: <5 μ g/kg (2 sa), 6–20 μ g/kg (2 sa), 21–50 μ g/kg (1 sa), 56 μ g/kg (1 sa) country: Guatemala³³ see also flour (maize), maize, millet, rice, spices

Meal (rye) may contain the following mycotoxins:

Deoxynivalenol

incidence: 2/2* **, conc. range: 55-56 µg/kg, Ø conc.: 55.5 μg/kg, country: Germany⁵⁶², *unknown origin, **o incidence: 1/1* **, conc.: 33 µg/kg, country: Germany⁵⁶², *unknown origin, **c see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

OCHRATOXIN A

incidence: 4/35, conc. range: 0.1–17.7 μg/kg, country: Germany⁶⁴⁰

incidence: 2/15*, conc. range: 1.7–1.8 μg/kg, Ø conc.: 1.8 μg/kg, country: Germany⁶⁴⁰, *coarse

incidence: $32/43^*$, conc. range: $\leq 1.431 \, \mu g/kg$, \varnothing conc.: $0.115 \, \mu g/kg$, country: Germany⁶⁹⁰, *whole

see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum),

Meal (rye) 236

fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, ligourice, ligourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Zearalenone

incidence: 1/2* **, conc.: 5.3 μg/kg, country: Germany⁵⁶², *unknown origin, **o incidence: 1/1* **, conc.: 12 μg/kg, country: Germany⁵⁶², *unknown origin, **c see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits

(maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Meal (sorghum) may contain the following mycotoxins:

Fumonisin B_1

incidence: 1/1, conc.: 28,200 µg/kg, country: Burundi 778

see also arepas, asparagus, barley, batter, beans, beer, bran (maize), bread, cake (rice), cereals, cereals (breakfast), chamomile, chips (maize), chips (tortilla), flakes (corn), flour (maize), food, food (baby), foodstuff, grits (maize), Incaparina, leaves, maize, maize fiber, maize muffin, maize products, maize silk, maize starch, masa, meal (maize), milk, muffin mix, nuts (peanut), pancake, popcorn, rapoko, rice, snacks, sorghum, soybeans, syrup (sorghum), tea, tortillas, wheat

Meal (spelt) may contain the following mycotoxins:

OCHRATOXIN A

incidence: 18/21*, conc. range: ≤9.429 μg/kg, Ø conc.: 0.66 μg/kg**, country: Germany⁶⁹⁰, *whole

see also barley, beans,

beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings,

237 Meal (wheat)

currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Meal (wheat) may contain the following mycotoxins:

Deoxynivalenol incidence: 1/3*, conc.: 30 μg/kg, country: Germany⁴³², *coarse

incidence: 4/4* ** ***, conc. range: 41–180 µg/kg, Ø conc.: 101 μg/kg, country: Germany⁵⁶², *unknown origin, **whole, ***o incidence: 3/3* ** ***, conc. range: 60-90 µg/kg, Ø conc.: 75 μg/kg, country: Germany⁵⁶², *unknown origin, **whole, ***c see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger),

OCHRATOXIN A

incidence: 3/23*, conc. range: 0.2–0.5 μg/kg, country: Germany⁶⁴⁰, *whole incidence: 18/18*, conc. range: ≤1.197 μg/kg, Ø conc.: 0.201 μg/kg, country: Germany⁶⁹⁰, *whole

see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice

Meal (wheat) 238

(carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, ligourice, ligourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

ZEARALENONE

incidence: 3/4* ** ***, conc. range: 5.1–10 μg/kg, Ø conc.: 6.9 μg/kg, country: Germany⁵⁶², *unknown origin, **whole, ***o incidence: 2/3* ** ****, conc. range: 11–12 μg/kg, Ø conc.: 11.5 μg/kg, country: Germany⁵⁶², *unknown origin, **whole, ***c see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley),

malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Meat may contain the following mycotoxins:

incidence: 5/25*, conc. range: 3.2-11.8 µg/kg,

ZEARALENONE

Ø conc.: 8.7 μg/kg, country: Egypt⁴⁴³, *fresh incidence: 6/25*, conc. range: 3.3–13.2 µg/kg, Ø conc.: 6.3 μg/kg, country: Egypt⁴⁴³, *frozen incidence: 5/20*, conc. range: 1.9-9.92 µg/kg, Ø conc.: 7.2 μg/kg, country: Egypt⁴⁴³, *minced see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Meat (luncheon) may contain the following mycotoxins:

239 Meat (luncheon)

Aflatoxin B_1

incidence: 1/25, conc.: 4 μg/kg, country: Egypt¹⁴

incidence: 7/50, conc. range: 0.5-11.1 µg/kg, Ø conc.: 3 μg/kg, country: Egypt⁷⁵ see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices

(mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂

incidence: 1/25, conc.: 2 μg/kg, country: Egypt¹⁴

see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Aflatoxin G₁

incidence: 1/50, conc.: 3.2 μg/kg, country: Egypt⁷⁵

see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts

Meat (luncheon) 240

(grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

Zearalenone

incidence: 4/20, conc. range: 1.3–7.5 µg/kg, Ø conc.: 6.4 µg/kg, country: Egypt⁴⁴³ see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Meat and fish may contain the following mycotoxins:

OCHRATOXIN A incidence: 6/6, conc. range: 0.1–2.2 μg/kg, country: Tunisia⁶³⁴ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat,

butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liquerice, liquerice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

241 Melon seeds

Meju may contain the following mycotoxins:

AFLATOXIN B₁

incidence: 26/60, conc. range: 2.1-23.5 µg/kg, Ø conc.: 6.9 μg/kg, country: Korea²²⁵ see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika),

spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Melon

see Fruits (melon)

Melon balls snacks

see Snacks

Melon seeds may contain the following mycotoxins:

Aflatoxin B₁

incidence: 102/319, conc. range: ≤50 μg/kg, country: Nigeria³⁹²

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts

Melon seeds 242

(walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxins

incidence: 2/4*, conc. range: ≤29 µg/kg, Ø conc.: 26 µg/kg, country: USA¹⁹⁷, *imported see also beans, candy (peanut), candy (pistachio), cassava, figs, flour (maize), grain mixtures, grains, maize, maize dough, maize products, millet, nuts, nuts (almond), nuts (brazil), nuts (peanut), nuts (peanut butter), nuts (peanut mix), nuts (peanut products), nuts (pecan), nuts (pistachio), nuts (walnut), nuts and seeds, paste (peanut), paste (pipian), peas, rice, sauce (leaf), snacks, sorghum, spices, spices (chilli), spices (cumin), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper), spices (tandoori), teff, tubers, wheat

Milk may contain the following mycotoxins:

AFLATOXIN M_1 incidence: $2/24^*$, conc. range: $0.02-0.04~\mu g/l$, country: Spain⁴¹, *pasteurized incidence: $5/19^*$ **, conc. range: $0.01-0.02~\mu g/l$, \varnothing conc.: $0.015~\mu g/l$, country: Cyprus⁷⁴, *full, **pasteurized incidence: $1/4^*$ **, conc.: $0.01~\mu g/l$, country: Cyprus⁷⁴, *light, **pasteurized incidence: $3/8^*$ **, conc. range: $0.01-0.04~\mu g/kg$, \varnothing conc.: $0.02~\mu g/l$, country: Cyprus⁷⁴, *skimmed, **pasteurized

incidence: 59/66*, conc. range: 0.004-0.15 μg/l, country: Italy⁷⁷, *pasteurized incidence: 5/12*, conc. range: <2.25 µg/l, country: France⁸¹, *condensed incidence: 5/33*, conc. range: 0.01-0.02 µg/l (4 sa), $0.02-0.04 \mu g/l$ (1 sa), country: Spain⁸⁸, *sterilized incidence: 27/30*, con. range: 0.003-0.022 μg/l, country: Italy¹⁰⁶, *pasteurized incidence: 70/82*, conc. range: 0.005-0.01 μ g/l (42 sa), 0.011–0.02 μ g/l (18 sa), 0.021–0.05 μg l (10 sa), country: Greece¹⁵⁰, *pasteurized incidence: 43/54*, conc. range: 0.005-0.01 $\mu g/l$ (18 sa), 0.011–0.02 $\mu g/l$ (15 sa), 0.021–0.05 μg/l (10 sa), country: Greece¹⁵⁰, *pasteurized incidence: 14/15*, conc. range: 0.005-0.01 $\mu g/l$ (2 sa), 0.011–0.02 $\mu g/l$ (4 sa), 0.021–0.05 $\mu g/l$ (6 sa), >0.05 $\mu g/l$ (2 sa), country: Greece¹⁵⁰, *concentrated incidence: 60/60*, conc. range: >0.05-0.125 $\mu g/l$ (12 sa), >0.125–0.25 $\mu g/l$ (19 sa), $>0.25-0.5 \mu g/l (26 sa), >0.5 \mu g/l (3 sa),$ country: Thailand155, *sterilized incidence: 63/63*, conc. range: >0.05-0.125 $\mu g/l$ (13 sa), >0.125–0.25 $\mu g/l$ (16 sa), $>0.25-0.5 \mu g/l (14 sa), >0.5 \mu g/l (20 sa),$ country: Thailand¹⁵⁵, *pasteurized incidence: 7/7*, conc. range: >0.125-0.25 μg/l (2 sa), $>0.25-0.5 \mu g/l$ (4 sa), $>0.5 \mu g/l$ (1 sa), country: Thailand¹⁵⁵, *pelleted incidence: 61/68*, conc. range: 0.005-0.05 μg/l, country: Italy168, *pasteurized incidence: 2/15*, conc. range: 0.0394-0.1012 μg/l, Ø conc.: 0.0703 μg/l, country: Brazil¹⁸⁶, *pasteurized incidence: 4/52*, conc. range: 0.073-0.37 $\mu g/l$, \varnothing conc.: 0.155 $\mu g/l$, country: Brazil²⁴⁶, *pasteurized incidence: 7/95*, conc. range: 0.02-0.04 µg/l, country: Spain³⁰⁴, *includes raw, pasteurized, sterilized, concentrated incidence: 1/35, conc.: 1 µg/l, country: India³²¹ incidence: 3/5*, conc. range: 0.01-0.03 µg/l, Ø conc.: 0.02 μg/kg, country: Kuwait³²⁹, *skimmed

243 Milk powder

incidence: $5/7^*$, conc. range: $0.02-0.16 \mu g/l$, \varnothing conc.: $0.068 \mu g/kg$, country: Kuwait³²⁹, *full cream

incidence: 7/22, conc. range: 0.2–0.5 μ g/kg (6 sa), >0.5 μ g/kg (1 sa), country: Uruguay⁷⁸⁷ see also butter, cheese, cheese (blue), gruel, ice cream, kidney (poultry), koshk, lactoserum powder, maize, milk packets, milk powder, milk products, milk (buffalo), milk (camel), milk (cow), milk (goat), milk (human breast), milk (raw or dried, for infant formula), milk (sheep), milk (sheep/goat), milk (UHT), milk (whey powder), yogurt

Fumonisin B₁

incidence: 1/165, conc. 1.3 μ g/l, country: USA³⁷⁷

see also arepas, asparagus, barley, batter, beans, beer, bran (maize), bread, cake (rice), cereals, cereals (breakfast), chamomile, chips (maize), chips (tortilla), flakes (corn), flour (maize), food, food (baby), foodstuff, grits (maize), Incaparina, leaves, maize, maize fiber, maize muffin, maize products, maize silk, maize starch, masa, meal (maize), meal (sorghum), muffin mix, nuts (peanut), pancake, popcorn, rapoko, rice, snacks, sorghum, soybeans, syrup (sorghum), tea, tortillas, wheat

ZEARALENONE

incidence: 4/20*, conc. range: 2.9–10.1 µg/l, \varnothing conc.: 6.9 µg/kg, country: Egypt⁴⁴³, *raw incidence: 3/20*, conc. range: 1.2–7.2 µg/l, \varnothing conc.: 5 µg/kg, country: Egypt⁴⁴³, *pasteurized incidence: 5/20*, conc. range: 1.6–9.3 µg/l, \varnothing conc.: 4.4 µg/kg, country: Egypt⁴⁴³, *condensed

see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk powder, nuts

(almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Milk packets may contain the following mycotoxins:

Aflatoxin M₁

incidence: 16/44, conc. range: 0.6–15 µg/l (11 sa), 16–30 µg/l (5 sa), country: India¹⁹⁵ see also butter, cheese, cheese (blue), gruel, ice cream, kidney (poultry), koshk, lactoserum powder, maize, milk, milk powder, milk products, milk (buffalo), milk (camel), milk (cow), milk (goat), milk (human breast), milk (raw or dried, for infant formula), milk (sheep), milk (sheep/goat), milk (UHT), milk (whey powder), yogurt

Milk powder may contain the following mycotoxins:

AFLATOXIN M₁

incidence: 30/41, conc. range: 0.2–2 µg/kg, Ø conc.: 0.5 μg/kg, country: Germany⁶ incidence: 2/70*, conc. range: ≈0.8 µg/kg, country: GDR²⁵, *products incidence: 1/15*, conc.: 15 μg/kg, country: Egypt⁴³, *from Denmark incidence: 3/18, conc. range: 0.040-0.095 μg/kg, Ø conc.: 0.066 μg/kg, country: Italy⁴⁹ incidence: 1/18*, conc.: 6.4 µg/kg, country: GDR⁵¹, *products incidence: 81/97, conc. range: <0.001-0.1 μg/kg, Ø conc.: 0.022 μg/kg, country: Italy⁵⁸ incidence: 35/277, conc. range: <0.03 μg/kg (24 sa), 0.01-0.02 μg/kg (6 sa), 0.02-0.04 μg/kg (5 sa), country: UK⁶¹ incidence: 9/9, conc. range: 0.01-0.28 µg/kg, country: Italy⁷⁷ incidence: 47/95, conc. range: 0.1-2.55 µg/kg, country: Germany⁸⁰

Milk powder 244

incidence: 7/7, conc. range: 0.679-1.96 µg/kg, Ø conc.: 1.4 μg/kg, country: Italy¹¹⁶ incidence: 4/4, conc. range: 0.009-0.082 μ g/kg, \varnothing conc.: 0.042 μ g/kg, country: USA¹²⁰ incidence: 8/166, conc. range: 0.67-2.0 µg/kg, country: Germany¹³³ incidence: 33/300. conc. range: 0.1-1.0 µg/kg, Ø conc.: 0.27 μg/kg, country: Brazil¹³⁶ incidence: 2/13, conc. range: >0–0.05 μg/kg (1 sa), $>0.05-0.125 \mu g/kg (1 \text{ sa})$, country: Thailand¹⁵⁵ incidence: ?/5, conc. range: 3.82-5.74 µg/kg, Ø conc.: 4.91 μg/kg, country: USA¹⁸⁰ incidence: 5/10, conc. range: 0.6–15 µg/kg (5 sa), country: India195 incidence: 1/10, conc.: 5 µg/kg, country: Egypt²²¹ incidence: 1/16, conc.: 1 µg/kg, country: India³²¹ incidence: 4/5, conc. range: 0.01-0.014 μg/l, Ø conc.: 0.0125 μg/l, country: Argentina⁶⁰⁵ incidence: 50/92* ** ***, conc. range: 0.001–0.0796 μg/kg, Ø conc.: 0.0322 μg/kg, country: Italy⁶¹³, *and from Denmark, France, Germany, Switzerland, **infant formula, ***dry milk incidence: 29/58*, conc. range: <1-2 μg/kg, country: Germany⁸⁴⁶, *full-milk incidence: 45/62*, conc. range: <1-4 μg/kg, country: Germany846, *skim-milk

incidence: 129/222, conc. range: 0.05-5.2

incidence: 6/13, conc. range: 0.05-0.1 µg/kg,

incidence: 5/10*, conc. range: 0.015–0.243 µg/kg, country: Japan⁹³, *sa from USA

incidence: 3/12, conc. range: tr, country:

incidence: 3/3, conc. range: 0.015-0.085

μg/kg, country: Japan⁹³, *sa from Poland

incidence: 21/27, conc. range: 0.015-0.464

incidence: 17/24, conc. range: 0.083-0.342

μg/kg, Ø conc.: 0.221 μg/kg, country: Korea⁹⁶

incidence: 476/1047, conc. range: 0.03-0.69

incidence: 10/10, conc. range: 0.015-0.1

μg/kg, country: Japan⁹³, *sa from China

μg/kg, country: France⁸¹

Japan⁹³, *sa from Italy

μg/kg, country: Austria¹⁰³

μg/kg, country: Italy¹⁰⁶

country: Italy85

incidence: 22/28*, conc. range: 0.4-1.5 µg/kg, Ø conc.: 0.92 μg/kg, country: Germany⁸⁴⁶, *skim-milk incidence: 2/5*, conc. range: <1–1 μg/kg, country: Germany⁸⁴⁶, *infant formula incidence: 1/1*, conc.: 0.06 μg/kg, country: UK847, *roller-dried incidence: 1/1*, conc.: 0.26 µg/kg, country: UK847, *spray-dried see also butter, cheese, cheese (blue), gruel, ice cream, kidney (poultry), koshk, lactoserum powder, maize, milk, milk packets, milk products, milk (buffalo), milk (camel), milk (cow), milk (goat), milk (human breast), milk (raw or dried, for infant formula), milk (sheep), milk (sheep/goat), milk (UHT), milk (whey powder), yogurt

AFLATOXIN M₂

incidence: ?/58*, conc. range: tr, country: Germany⁸⁴⁶, *full-milk incidence: ?/62*, conc. range: tr, country: Germany⁸⁴⁶, *skim-milk incidence: 11/28*, conc. range: tr, country: Germany⁸⁴⁶, *skim-milk see also gruel, milk (cow), milk (goat), milk (human breast)

Zearalenone

incidence: 6/20, conc. range: 3.1-12.5 µg/kg, Ø conc.: 6.4 μg/kg, country: Egypt⁴⁴³ see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry

245 Milk (buffalo)

paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Milk products may contain the following mycotoxins:

Aflatoxin B₁

incidence: 1/22, conc.: 6.4 μg/kg, country: GDR¹⁷⁸

incidence: 3/10, conc. range: 0.6–15 μ g/kg (3 sa), country: India¹⁹⁵

incidence: 2/23*, conc. range: 10–20 μ g/kg, \varnothing conc.: 15 μ g/kg, country: India³²¹, *barfi,

khoa, paneer see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste

(soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN M₁

incidence: 11/62, conc. range: 0.28–1.3 μg/kg, country: Italy⁴⁸³ see also butter, cheese, cheese (blue), gruel, ice cream, kidney (poultry), koshk, lactoserum powder, maize, milk, milk

lactoserum powder, maize, milk, milk packets, milk powder, milk (buffalo), milk (camel), milk (cow), milk (goat), milk (human breast), milk (raw or dried, for infant formula), milk (sheep), milk (sheep/goat), milk (UHT), milk (whey powder), yogurt

Aflatoxin M₄

incidence: 3/62, conc. range: 0.34–0.87 μg/kg, country: Italy⁴⁸³

Milk (buffalo) may contain the following mycotoxins:

Aflatoxin B₁

incidence: 17/28, conc. range: nc, country: India²¹⁴

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and

Milk (buffalo) 246

medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxin M₁

incidence: 17/28, conc. range: nc, country: India²¹⁴

incidence: 1/25, conc.: 1 µg/l, country: India³²¹

incidence: 60/207*, conc. range: 0.004-0.676 μg/l, country: Italy⁴³⁶, *raw see also butter, cheese, cheese (blue), gruel, ice cream, kidney (poultry), koshk, lactoserum powder, maize, milk, milk packets, milk powder, milk products, milk (camel), milk (cow), milk (goat), milk

(human breast), milk (raw or dried, for infant formula), milk (sheep), milk (sheep/goat), milk (UHT), milk (whey powder), yogurt

Milk (camel) may contain the following mycotoxins:

AFLATOXIN B₁ incidence: 1/8, conc. range: nc, country: India²¹⁴

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices

(chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxin M_1

incidence: 6/20, conc. range: 0.25–0.8 μg/l, country: UAE¹⁵¹

incidence: 59/66, conc. range: nc, Ø conc.: 0.075 μg/l, country: India²³¹ see also butter, cheese, cheese (blue), gruel, ice cream, kidney (poultry), koshk, lactoserum powder, maize, milk, milk packets, milk powder, milk products, milk (buffalo), milk (cow), milk (goat), milk (human breast), milk (raw or dried, for infant formula), milk (sheep), milk (sheep/goat), milk (UHT), milk (whey powder), yogurt

Milk (cow) may contain the following mycotoxins:

Aflatoxin B_1

incidence: 3/8, conc. range: nc, country: India²¹⁴

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste),

mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN M₁

incidence: 118/260, conc. range: 0.05-0.33

μg/l, country: Germany⁶

incidence: 4/36, conc. range: 1.7–6.5 μ g/l, \varnothing

conc.: 3.6 μg/l, country: GDR⁵¹

incidence: 43/403, conc. range: 0.025–0.1 μg/l (37 sa), 0.1–0.5 μg/l (6 sa), country:

Czechoslovakia⁵⁴

incidence: 46/376, conc. range: 0.025–0.1 μg/l (44 sa), >0.1 μg/l (2 sa), country:

Czechoslovakia54

incidence: 11/22, conc. range: 0.01–0.25 μg/l,

country: Poland⁵⁷

incidence: 136/159, conc. range: <0.001-0.1 µg/l, \varnothing conc.: 0.01 µg/l, country: Italy⁵⁸ incidence: 24/409, conc. range: 0.02–0.05 µg/l (10 samples), 0.05–0.1 µg/l (6 sa), >0.1 µg/l (8 sa), country: UK⁶¹

incidence: 3/71*, conc. range: 0.03-0.04 $\mu g/kg$, \varnothing conc.: 0.035 $\mu g/l$, country: Cyprus⁷⁴, *raw incidence: 8/31*, conc. range: 0.005-0.091 μg/l, country: Italy⁷⁷, *raw, farm incidence: 168/380, conc. range: 0.05-1.15 μg/l, country: France⁸¹ incidence: ?/2867, conc. range: 0-0.010 µg/l (2229 sa), 0.011-0.020 µg/l (600 sa), $0.021-0.030 \mu g/l$ (26 sa), $0.031-0.040 \mu g/l$ (6 sa), $0.041-0.050 \mu g/l (3 sa)$, $>0.05 \mu g/l (3 sa)$, country: Germany⁸² incidence: 16/163, conc. range: 0.05-2.0 μg/l, country: Switzerland⁸³ incidence: 40/230, conc. range: 0.05-3.0 µg/l, country: Switzerland⁸³ incidence: ?/5489, conc. range: 0-0.05 µg/l $(5284 \text{ sa}), 0.05-0.50 \mu\text{g/l} (200 \text{ sa}), >0.5 \mu\text{g/l}$ (5 sa), country: France⁸⁷ incidence: ?/757*, conc. range: 0-0.05 µg/l (659 sa), $0.05-0.50 \mu g/l$ (84 sa), $>0.5 \mu g/l$ (14 sa), country: France⁸⁷, *raw incidence: 12/49, conc. range: 0.01-0.02 µg/l (10 sa), 0.02-0.04 μg/l (2 sa), country: Spain⁸⁸ incidence: 4/99*, conc. range: 0.1-0.13 µg/l, country: Greece91, *raw incidence: 12/36*, conc. range: 0.04-0.25 μg/l, country: Germany⁹⁴, *single farms incidence: 9/12*, conc. range: 0.04-0.08 μg/l, country: Germany94, *tanker incidence: 7/13*, conc. range: 0.05-0.13 µg/l, country: Germany94, *bulk milk incidence: 79/419, conc. range: 0.05–0.54 μg/l, Ø conc.: 0.12 μg/l, country: Germany⁹⁵ incidence: 39/70, conc. range: 0.015-0.052 $\mu g/l$, \varnothing conc.: 0.031 $\mu g/l$, country: Korea⁹⁶ incidence: 191/302, conc. range: tr-0.2 µg/l (126 sa), 0.3–0.4 µg/l (46 sa), 0.5–0.7 µg/l (14 sa), >0.7 μg/l (5 sa), country: USA⁹⁸ incidence: 14/40, conc. range: $\leq 0.7 \mu g/l$, country: Switzerland102 incidence: 5/107, conc. range: 0.024-0.094 μg/l, country: Italy¹⁰⁴ incidence: 25/191, conc. range: 0.05-0.1 µg/l, country: Czechoslovakia¹¹⁵ incidence: 22/22*, conc. range: <0.1-0.434 µg/l, country: Italy116, *commercial incidence: 9/117*, conc. range: 0.05–0.1 μg/l, country: Czechoslovakia118, *commercial

incidence: 84/105*, conc. range: 0.015-0.09 $\mu g/l$, \varnothing conc.: 0.03 $\mu g/l$, country: The Netherlands119, *raw and UHT incidence: 72/81*, conc. range: 0.0005-0.001 $\mu g/l$ (31 sa), 0.0025–0.005 $\mu g/l$ (32 sa), >0.005–0.177 μg/l (9 sa)., country: Greece¹²³, *pasteurized incidence: 22/85*, conc. range: <0.5 μg/l (8 sa), $>0.5 \mu g/l$ (14 sa, with a maximum of 2.6 μg/l), country: Spain¹²⁶, *raw incidence: 143/192*, conc. range: >0.125-0.5 $\mu g/l$ (80 sa), $-1 \mu g/kg$ (30 sa), $-1.5 \mu g/l$ (18 sa), $-2 \mu g/l$ (8 sa), $-3 \mu g/l$ (5 sa), $-4.5 \mu g/l$ (1 sa), $-6 \mu g/l (1 sa)$, \varnothing conc.: 0.54 $\mu g/l$, country: Switzerland¹³¹, *from Ecuador incidence: 46/46*, conc. range: 0.01–0.21 μg/l, country: The Netherlands¹³⁴, *raw incidence: 16/100, conc. range: 0.02-0.138 μg/l, country: Italy¹³⁷ incidence: 267?/267*, conc. range: <0.005 μg/l (115 sa), 0.005-0.02 μg/l (113 sa), $>0.02<0.05 \mu g/l (21 sa), \ge 0.05 \mu g/l (19 sa),$ country: Sweden¹³⁹, *different preservation techniques for the grain fed to dairy cows incidence: 31/225*, conc. range: 0.001-0.01 μg/l, country: Italy¹⁴², *from Germany incidence: 11/77*, conc. range: 0.001–0.01 μg/l (10 sa), 0.011–0.05 μg/l (1 sa), country: Italy¹⁴², *from France incidence: 70/276, conc. range: 0.001-0.01 $\mu g/l$ (39 sa), 0.011–0.05 $\mu g/l$ (24 sa), $0.051-0.1 \mu g/l (5 sa), 0.101-0.2 \mu g/l (2 sa),$ country: Italy¹⁴² incidence: 130/416, conc. range: 0.005-0.05 $\mu g/l$ (68 sa), 0.051–0.1 $\mu g/l$ (26 sa), $0.101-0.25 \mu g/l (27 \text{ sa}), 0.251-0.4 \mu g/l (7 \text{ sa}),$ >0.4 μg/l (2 sa), country: Italy¹⁴² incidence: 5/21, conc. range: <0.16 µg/l (3 sa), $\approx 0.16 \,\mu\text{g/l}$ (2 sa), country: South incidence: 89/504, conc. range: 0.1-3.5 µg/l, \emptyset conc.: 1.159 µg/l, country: India¹⁴⁵ incidence: 22/30*, conc. range: 0.005–0.01 $\mu g/l$ (7 sa), 0.011–0.02 $\mu g/l$ (10 sa), $0.021-0.05 \mu g/l (4 sa), >0.05 \mu g/l (1 sa),$ country: Greece¹⁵⁰, *raw incidence: 18/23*, conc. range: 0.005-0.01 $\mu g/l$ (12 sa), 0.011–0.02 $\mu g/l$ (4 sa),

0.021-0.05 μg/l (2 sa), country: Greece¹⁵⁰, *bulk-tank incidence: 18/28*, conc. range: 0.005-0.01 $\mu g/l$ (3 sa), 0.011–0.02 $\mu g/l$ (10 sa), $0.021-0.05 \mu g/l (4 sa), >0.05 \mu g/l (1 sa),$ country: Greece¹⁵⁰, *raw incidence: 1/100*, conc.: 0.2 µg/l, country: Brazil¹⁵³, *commercial incidence: 9/50*, conc. range: 0.1-1.68 µg/l, country: Brazil¹⁵³, *farm incidence: 66/67*, conc. range: >0-0.05 μg/l (9 sa), $>0.05-0.125 \mu g/l (16 \text{ sa})$, >0.125-0.25 $\mu g/l$ (19 sa), >0.25–0.5 $\mu g/l$ (5 sa), >0.5 $\mu g/l$ (17 sa), country: Thailand¹⁵⁵, *raw incidence: 50/85*, conc. range: 0-0.15 µg/l, country: Egypt¹⁵⁶, *raw incidence: 24/27, conc. range: 0.005-0.065 μg/l, country: Italy168 incidence: 13/13, conc. range: 0.005-0.36 μg/l, country: Sweden¹⁶⁹ incidence: 4/4, conc. range: 0.0013-0.0068 μg/l, country: Norway¹⁷⁰ incidence: 5/77*, conc. range: tr-0.38 µg/l, country: Czechoslovakia171, *raw incidence: 27/50, conc. range: tr-4.8 µg/l, country: India¹⁷² incidence: 191/302, conc. range: tr-0.2 µg/l (126 sa), 0.3–0.4 µg/l (46 sa), 0.5–0.7 µg/l (14 sa), >0.7 μg/l (5 sa), country: USA¹⁷⁶ incidence: 38*/95, conc. range: 8-500 µg/kg?, country: Iran182, *mainly AFM1 and to a minor degree AFM₂ and AFB₁ incidence: 189/352*, conc. range: 0.6-15 µg/l (133 sa), 16-30 µg/l (40 sa), 31-48 µg/l (16 sa), country: India195, *raw, peri urban and incidence: 17/50, conc. range: 0.6–15 µg/l (17 sa), country: India195 incidence: 64/64, conc. range: 0.0056-0.28 $\mu g/l$, \varnothing conc.: 0.08 $\mu g/l$, country: Korea²¹³ incidence: 3/8, conc. range: nc, country: India²¹⁴ incidence: 35/90, conc. range: 0.0302-0.0636 μg/l, country: Turkey²¹⁷ incidence: 3/15, conc. range: 5-8 μg/l, Ø conc.: 6.3 µg/l, country: Egypt²²¹ incidence: 25/31*, conc. range: 0.005-0.010 $\mu g/l$ (17 sa), 0.011–0.020 $\mu g/l$ (2 sa),

0.021-0.050 µg/l (6 sa), country: Portugal²²³, incidence: 1/10*, conc.: 0.0108 µg/l, country: Turkey²²⁶ incidence: 61/66, conc. range: nc, Ø conc.: 0.128 μg/l, country: India²³¹ incidence: 90/91*, conc. range: nc, Ø conc.: 0.092 μg/l, country: India²³¹ incidence: 10/42, conc. range: 0.29505-1.9749 μ g/l, \varnothing conc.: 0.68485 μ g/l, country: Brazil²⁴² incidence: 12/50, conc. range: 0.25-3.72 µg/l, Ø conc.: 1.03 μg/l, country: Egypt²⁵⁶ incidence: 6/30*, conc. range: 0.0036–0.0106 μg/l, country: Poland²⁶⁸, *from chosen farms incidence: 37/157, conc. range: <0.001 µg/l $(25 \text{ sa}), 0.001-0.05 \mu\text{g/l} (12 \text{ sa}), \text{ country:}$ Poland²⁶⁸ incidence: 28/36, conc. range: 0.01-0.05 µg/l (18 sa), $0.051-0.1 \mu g/l$ (5 sa), $0.101-0.2 \mu g/l$ (3 sa), 0.201–0.3 μ g/l (2 sa), \varnothing conc.: 0.06 μg/l, country: Brazil²⁸² incidence: 36/325, conc. range: 0.1-1 µg/l, country: India317 incidence: 42/100, conc. range: 0-0.002 µg/l (21 sa), 0.002-0.005 μg/l (13 sa), 0.005-0.01 $\mu g/l$ (4 sa), 0.01–0.05 $\mu g/l$ (3 sa), 0.0518 $\mu g/l$ (1 sa), country: Austria³¹⁹ incidence: 3/21, conc. range: 3.3-13.3 µg/l, country: India321 incidence: 5/9, conc. range: 0.2–0.21 μ g/l, \varnothing conc.: 0.21 µg/l, country: Kuwait³²⁹ incidence: 126/242*, conc. range: 0.004-1.262 μg/l, country: Italy436, *raw incidence: 54/93*, conc. range: 0.004–0.088 μg/l, country: Italy⁴³⁶, *heat-treated incidence: 91/91*, conc. range: <0.002-0.609 μg/l, country: Switzerland⁴⁷³, *mixed incidence: 27/53*, conc. range: 0.005-0.146 μg/l, country: Italy⁴⁸², *raw incidence: 12/18*, conc. range: 0.005-0.03 μ g/l, \varnothing conc.: 0.014 μ g/l, country: Italy⁴⁸², *commercial incidence: 4/5, conc. range: 0.0085-0.012 $\mu g/l$, \varnothing conc.: 0.009 $\mu g/l$, country: Italy⁴⁸² incidence: 179/241, conc. range: 0.0106–0.2889 μg/l, country: Colombia⁵⁵⁶ incidence: 6/56*, conc. range: 0.012–0.03 $\mu g/l$, \varnothing conc.: 0.016 $\mu g/l$, country: Argentina⁶⁰⁵, *farm

incidence: 8/16*, conc. range: 0.01-0.017 $\mu g/l$, \varnothing conc.: 0.013 $\mu g/l$, country: Argentina⁶⁰⁵, *pasteurized, commercial incidence: 207/208*, conc. range: 0.001-0.029 $\mu g/l_{,} \varnothing$ conc.: 0.009 $\mu g/l_{,}$ country: Japan⁶¹⁶, *pasteurized incidence: 58/79*, conc. range: 0.015-0.05 μg/l (46 sa), 0.05–0.5 μg/l (12 sa), country: Brazil⁶²⁰, *pasteurized incidence: 51/88*, conc. range: 0.01-0.04 μg/kg (51 sa, with a maximum of 0.22 μg/kg), country: UK⁷³⁵, *full fat incidence: 37/74*, conc. range: 0.01-0.04 μg/kg (37 sa, with a maximum of 0.03 μg/kg), country: UK⁷³⁵, *skimmed and semi-skimmed incidence: 50/324*, conc. range: 0.01-0.04 $\mu g/kg$ (39 sa), 0.05–0.1 $\mu g/kg$ (9 sa), >0.1 μg/kg (2 sa, with a maximum of 0.18 μg/kg), country: UK737, *farm incidence: 3/100* **, conc. range: 0.01-0.021 μg/kg, country: UK⁸⁴², *retail and farm-gate, **c and o see also butter, cheese, cheese (blue), gruel,

ice cream, kidney (poultry), koshk, lactoserum powder, maize, milk, milk packets, milk powder, milk products, milk (buffalo), milk (camel), milk (goat), milk (human breast), milk (raw or dried, for infant formula), milk (sheep), milk (sheep/goat), milk (UHT), milk (whey powder), yogurt

Aflatoxin M_2

incidence: $25/52^*$, conc. range: 0.0003-0.0034 µg/l, \varnothing conc.: 0.00086 µg/l, country: Japan⁶¹⁶, *pasteurized see also gruel, milk powder, milk (goat), milk (human breast)

Aflatoxins (M_1, M_2)

incidence: 23/26*, conc. range: 0.1–1.43 μ g/l, \varnothing conc.: 0.593 μ g/l, country: USA¹²¹, *raw

Cyclopiazonic Acid incidence: 2/36, conc. range: 6.4–9.7 µg/l, \varnothing conc.: 8.1 µg/l, country: Brazil²⁸² see also cassava, cheese, maize, nuts (peanut), pulp (tomato), tomato purée

OCHRATOXIN A incidence: 5/36, conc. range: 0.01-0.04 µg/l, country: Sweden⁵⁸⁰ incidence: 6/40*, conc. range: 0.011-0.058 μg/l, country: Norway⁶⁶², *c incidence: 5/47*, conc. range: 0.015-0.028 μg/l, country: Norway⁶⁶², *o see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, ligourice, ligourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli),

251 Milk (human breast)

spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Milk (goat) may contain the following mycotoxins:

Aflatoxin M₁

incidence: 4/10*, conc. range: 0.011–0.02 μg/l (2 sa), 0.021–0.05 μg/l (2 sa), country: Greece¹⁵⁰, *raw

incidence: $8/12^*$, conc. range: $0.005-0.01 \mu g/l$ (7 sa), $0.011-0.02 \mu g/l$ (1 sa), country: Greece¹⁵⁰, *raw

see also butter, cheese, cheese (blue), gruel, ice cream, kidney (poultry), koshk, lactoserum powder, maize, milk, milk packets, milk powder, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (raw or dried, for infant formula), milk (sheep), milk (sheep/goat), milk (UHT), milk (whey powder), yogurt

AFLATOXIN M₂

incidence: 2/8, conc. range: nc, country: India²¹⁴

see also gruel, milk powder, milk (cow), milk (human breast)

Milk (human breast) may contain the following mycotoxins:

Aflatoxicol

incidence: 6/800*, conc. range: 0.014–0.27 µg/l, country: UK¹²⁷, *Sudan, Kenya, Ghana

Aflatoxin B₁

incidence: 41/800*, conc. range: 0.15–55.792 µg/l, country: UK¹²⁷, *Sudan, Kenya, Ghana incidence: 1/231, conc.: 0.0114 µg/l, country: Italy⁶⁶⁹

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂

incidence: 10/800*, conc. range: 0.049–0.623 µg/l, country: UK¹²⁷, *Sudan, Kenya, Ghana see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals

Milk (human breast) 252

(breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Aflatoxin G₁

incidence: 4/800*, conc. range: 1.89-5.18 μg/l, country: UK127, *Sudan, Kenya, Ghana incidence: 3/5*, conc. range: nc, country: UK²⁰⁰, *from The Gambia see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices

(garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

Aflatoxin G₂

incidence: 3/800*, conc. range: 0.01-0.087 μg/l, country: UK¹²⁷, *Sudan, Kenya, Ghana see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize dough, nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

AFLATOXIN M₁

incidence: 11/73, conc. range: 0.028–1.031 µg/l, country: Australia⁴⁵ incidence: 5/11*, conc. range: 0.039–1.736 µg/l, country: Australia⁴⁵, * from Thailand incidence: 6/64, conc. range: 0.014–0.051 µg/l, Ø conc.: 0.034 µg/l, country: Zimbabwe⁷⁹ incidence: 253/800*, conc. range: 0.005–1.379 µg/l, country: UK¹²⁷, *Sudan, Kenya, Ghana incidence: 10/64, conc. range: 0.3–1.3 µg/l, country: UAE¹⁵¹ incidence: 443/445*, conc. range: ≤3 µg/l, country: UAE¹⁵², *donors were from different countries

incidence: 5/5*, conc. range: \leq 0.0014 µg/l, country: UK²⁰⁰, *from Gambia incidence: 2/10, conc. range: 0.5–5 µg/l, \varnothing conc.: 2.75 µg/l, country: Egypt²²¹ incidence: 138/388, conc. range: 0.0056–5.131 µg/l, country: Egypt⁵⁵⁸ incidence: 1/50, conc.: 0.024 µg/l, country: Brazil⁶¹⁷

253 Milk (human breast)

incidence: 129/140*, conc. range: \leq 3.4 µg/l, country: UAE⁶¹⁹, *and from different countries

incidence: 1/231, conc.: 0.194 μg/l, country: Italy⁶⁶⁹

incidence: 66/120, conc. range: 0.02–2.09 µg/l, country: Egypt⁶⁷¹

see also butter, cheese, cheese (blue), gruel, ice cream, kidney (poultry), koshk, lactoserum powder, maize, milk, milk packets, milk powder, milk products, milk (buffalo), milk (camel), milk (cow), milk (goat), milk (raw or dried, for infant formula), milk (sheep), milk (sheep/goat), milk (UHT), milk (whey powder), yogurt

AFLATOXIN M₂

incidence: 103/800*, conc. range: 0.003–6.368 µg/l, country: UK¹²⁷, *Sudan, Kenya, Ghana see also gruel, milk powder, milk (cow), milk (goat)

OCHRATOXIN A

incidence: 38/115, conc. range: 0.01-0.13 µg/l, \varnothing conc.: 0.037 µg/l, country: Norway²⁰⁹ incidence: 3/10, conc. range: 3-15 µg/l, \varnothing conc.: 8.87 µg/l, country: Egypt²²¹ incidence: 2/100, conc. range: 3-3.6 µg/l, \varnothing conc.: 3.3 µg/l, country: Australia²⁵⁵ incidence: 4/36, conc. range: 0.017-0.03 µg/l, \varnothing conc.: 0.023 µg/l, country: Germany⁵⁷⁷ incidence: 4/40, conc. range: 0.01-0.04 µg/l, country: Sweden⁵⁸⁰

incidence: 4/36, conc. range: 0.017–0.03 µg/l, country: Germany⁵⁹⁷

incidence: 2/50, conc. range: 0.011-0.024 µg/l, \varnothing conc.: 0.018 µg/l, country: Brazil⁶¹⁷ incidence: 17/80, conc. range: 0.01-0.182 µg/l, country: Norway⁶⁶³

incidence: 198/231, conc. range: 0.005–0.057 µg/l, country: Italy⁶⁶⁹

incidence: 43/120, conc. range: 5.07–45.019 µg/l, country: Egypt⁶⁷¹

incidence: 4/40, conc. range: 0.005–0.014 μ g/kg, \varnothing conc.: 0.00725 μ g/kg, country: Switzerland⁶⁹²

see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat,

butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Milk (raw or dried, for infant formula) may contain the following mycotoxins:

Aflatoxin M₁

incidence: 18/26, conc. range: 0.032–0.132 μg/l, Ø conc.: 0.062 μg/l, country: Korea⁹⁶ incidence: 4/62, conc. range: 0.02–0.05 μg/kg* (4 sa, with a maximum of 0.05 μg/kg), country: UK⁷³⁵, *on dry weight basis see also butter, cheese, cheese (blue), gruel, ice cream, kidney (poultry), koshk, lactoserum powder, maize, milk, milk packets, milk powder, milk products, milk (buffalo), milk (camel), milk (cow), milk (goat), milk (human breast), milk (sheep), milk (sheep/goat), milk (UHT), milk (whey powder), yogurt

Milk (sheep) may contain the following mycotoxins:

Aflatoxin B_1

incidence: 2/8, conc. range: nc, country: India²¹⁴

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), millet, muesli, nut cocktail, nuts, nuts

(almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxin M_1

incidence: $8/12^*$, conc. range: $0.005-0.01 \mu g/l$ (3 sa), $0.011-0.02 \mu g/l$ (3 sa), $0.021-0.05 \mu g/l$ (2 sa), country: Greece¹⁵⁰, *raw incidence: $11/15^*$, conc. range: $0.005-0.01 \mu g/l$ (6 sa), $0.011-0.02 \mu g/l$ (3 sa), $0.021-0.05 \mu g/l$ (1 sa), $>0.05 \mu g/l$ (1 sa), country: Greece¹⁵⁰, *raw incidence: 2/8, conc. range: nc, country: India²¹⁴

incidence: 195/240*, conc. range: 0.002–0.108 μ g/l, \varnothing conc.: 0.01536 μ g/l, country: Italy²⁴⁵, *ewes milk

see also butter, cheese, cheese (blue), gruel, ice cream, kidney (poultry), koshk, lactoserum powder, maize, milk, milk packets, milk powder, milk products, milk (buffalo), milk (camel), milk (cow), milk (goat), milk (human breast), milk (raw or dried, for infant formula), milk (sheep/goat), milk (UHT), milk (whey powder), yogurt

Milk (sheep/goat) may contain the following mycotoxins:

255 Millet

AFLATOXIN M₁

incidence: 7/17*, conc. range: 0.006–0.031 µg/l, country: Italy⁴³⁶, *raw see also butter, cheese, cheese (blue), gruel, ice cream, kidney (poultry), koshk, lactoserum powder, maize, milk, milk packets, milk powder, milk products, milk (buffalo), milk (camel), milk (cow), milk (goat), milk (human breast), milk (raw or dried, for infant formula), milk (sheep), milk (UHT), milk (whey powder), yogurt

Milk (UHT) may contain the following mycotoxins:

AFLATOXIN M₁

incidence: 14/47, conc. range: 0.02–0.1 μg/l,

country: Italy¹⁹

incidence: 12/76*, conc. range: 0.02–0.04 μg/kg, country: Spain⁴¹, *includes 24 semiskimmed samples, all not contaminated incidence: 14/17, conc. range: 0.005–0.01 μg/l (4 sa), 0.011–0.02 μg/l (6 sa), 0.021–0.05 μg/l (4 sa), country: Greece¹⁵⁰

incidence: 60/60, conc. range: >0–0.05 µg/l (7 sa), >0.05–0.125 µg/l (5 sa), >0.125–0.25 µg/l (12 sa), >0.25–0.5 µg/l (29 sa), >0.5 µg/l (7 sa), country: Thailand 155

incidence: 28/32, conc. range: 0.007–0.050 µg/l, country: Italy¹⁶⁸

incidence: 5/105, conc. range: 0.0141–0.0349 µg/l, country: Brazil¹⁸⁶

incidence: 17/18*, conc. range: 0.005–0.010 µg/l (2 sa), 0.011–0.020 µg/l (8 sa), 0.021–0.050 µg/l (6 sa), 0.059 µg/l (1 sa), country: Portugal²²³, *whole milk incidence: 20/22*, conc. range: 0.011–0.020

µg/l (1 sa), 0.021–0.050 µg/l (18 sa), 0.061 µg/l (1 sa), country: Portugal²²³, *semi-skimmed milk

incidence: 23/30*, conc. range: 0.005–0.010 μg/l (7 sa), 0.011–0.020 μg/l (16 sa), country: Portugal²²³, *skimmed milk

roltugal , skimmed films incidence: 9/12, conc. range: $0.01-0.05 \mu g/l$ (3 sa), $0.051-0.1 \mu g/l$ (4 sa), $0.101-0.2 \mu g/l$ (2 sa), \varnothing conc.: $0.075 \mu g/l$, country: Brazil²⁸² incidence: 125/161, conc. range: $0.001-0.0235 \mu g/l$, \varnothing conc.: $0.0063 \mu g/l$, country: Italy⁶¹³

incidence: 53/60, conc. range: 0.015–0.05 μg/l (36 sa), 0.05–0.5 μg/l (17 sa), country: Brazil⁶²⁰

see also butter, cheese, cheese (blue), gruel, ice cream, kidney (poultry), koshk, lactoserum powder, maize, milk, milk packets, milk powder, milk products, milk (buffalo), milk (camel), milk (cow), milk (goat), milk (human breast), milk (raw or dried, for infant formula), milk (sheep), milk (sheep/goat), milk (whey powder), yogurt

Milk (whey powder) may contain the following mycotoxins:

Aflatoxin M_1

incidence: 28/74, conc. range: 0.5–6.5 μg/kg,

country: France⁵⁰

incidence: 3/6, conc. range: <1–1 μg/kg,

country: Germany⁸⁴⁶

see also butter, cheese, cheese (blue), gruel, ice cream, kidney (poultry), koshk, lactoserum powder, maize, milk, milk packets, milk powder, milk products, milk (buffalo), milk (camel), milk (cow), milk (goat), milk (human breast), milk (raw or dried, for infant formula), milk (sheep), milk (sheep/goat), milk (UHT), yogurt

Millet may contain the following mycotoxins:

Aflatoxin B_1

incidence: 17/30*, conc. range: 12-44 µg/kg, country: India⁴⁷⁶, *Kodon and Kutki see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, Millet 256

kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXINS (B₁, B₂) incidence: 9/9*, conc. range: 1–27 µg/kg, \varnothing conc.: 9.8 µg/kg, country: The Gambia⁷², *(*Pennisetum typhoideum*, Sanyo) see also flour (maize), maize, meal (protein

AFLATOXINS

supplement), rice, spices

incidence: 9*/55, conc. range: 1–100 μg/kg, country: Uganda⁵, *6 sa contained AFB₁, 4 AFB₂, 2 AFG₁, 1 AFG₂ see also beans, candy (peanut), candy (pistachio), cassava, figs, flour (maize), grain mixtures, grains, maize, maize dough, maize

products, melon seeds, nuts, nuts (almond), nuts (brazil), nuts (peanut), nuts (peanut butter), nuts (peanut mix), nuts (peanut products), nuts (pecan), nuts (pistachio), nuts (walnut), nuts and seeds, paste (peanut), paste (pipian), peas, rice, sauce (leaf), snacks, sorghum, spices, spices (chilli), spices (cumin), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper), spices (tandoori), teff, tubers, wheat

Deoxynivalenol

incidence: 1/4*, conc.: 229 µg/kg, country: Korea⁵⁰⁹, *Indian see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

Nivalenol

incidence: 1/4*, conc.: 340 μg/kg, country: Korea⁵⁰⁹, *Indian see also barley, beer, biscuits, bran (wheat), bread, cake, cereal (baby), cereals,cereals (breakfast), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, germ (wheat), grits (maize), grits (wheat), Job's-tears, maize, malt (barley), meal (millet), noodles, oat products, oats, rice, rye, snacks, sorghum, soybeans, spices (chilli sauce), spices (curry), spices (curry paste), spices (curry powder), spices (garlic), spices (ginger), spices (tandoori), wheat

OCHRATOXIN A

incidence: 33/33, conc. range: 17–204 μg/kg, country: Côte d´Ivoire⁶⁴²

257 Muesli

incidence: 23/26, conc. range: $\leq 0.831 \,\mu g/kg$, Ø conc.: 0.111 μg/kg, country: Germany⁶⁹⁰ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices

(nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Millet meal

see Meal (millet)

Mozzarella cheese

see Cheese

Muesli may contain the following mycotoxins:

AFLATOXIN B₁ incidence: 4*/14, conc. range: 20-120 µg/kg, country: Germany⁶⁷, *moldy see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts

Muesli 258

(pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Deoxynivalenol

incidence: 2/2, conc. range: 10-30 µg/kg, country: Germany⁴³² see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

OCHRATOXIN A

country: Germany⁵⁹² incidence: 2/7, conc. range: 0.2–0.49 μg/kg (1 sa), 0.5–1.49 μg/kg (1 sa), country: Germany⁶²³ incidence: 5/50*, conc. range: 1–5 μg/kg (5

incidence: 71/115, conc. range: ≤31.8 µg/kg,

incidence: $5/50^*$, conc. range: $1-5 \mu g/kg$ (5 sa, with a maximum of 3.9 $\mu g/kg$), country: UK⁶³⁶, *and from different countries?

incidence: 2/26, conc.: 0.4–0.5 μg/kg, Ø conc.: 0.5 µg/kg, country: Germany⁶⁴⁰ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard),

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spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Münster cheese

see Cheese

Muffin mix may contain the following mycotoxins:

Fumonisin B₁

incidence: $2/3^*$ **, conc. range: 170-1210 µg/kg, \varnothing conc.: 690 µg/kg, country: USA³⁸⁴, *maize-based, **includes one yellow maize sa incidence: 1/2, conc.: 80 µg/kg, country: USA⁴¹⁰

see also arepas, asparagus, barley, batter, beans, beer, bran (maize), bread, cake (rice), cereals, cereals (breakfast), chamomile, chips (maize), chips (tortilla), flakes (corn), flour (maize), food, food (baby), foodstuff, grits (maize), Incaparina, leaves, maize, maize fiber, maize muffin, maize products, maize silk, maize starch, masa, meal (maize), meal (sorghum), milk, nuts (peanut), pancake, popcorn, rapoko, rice, snacks, sorghum, soybeans, syrup (sorghum), tea, tortillas, wheat

Fumonisin B₂

incidence: 1/2, conc.: 10 μg/kg, country: USA⁴¹⁰

see also arepas, asparagus, barley, batter, beer, bran (maize), cereals, cereals (breakfast), chips (maize), chips (tortilla), flakes (corn), flour (maize), food (baby), foodstuff, grits (maize), Incaparina, maize, maize fiber, maize starch, masa, meal (maize), pancake, popcorn, rice, snacks, tortillas, wheat

incidence: 6?/6, conc. range: 450–1450 μg/kg, country: USA³⁵⁷ see also beer, bread, cereal (infant), chips (tortilla), flakes (corn), flour (maize), grits

(maize), maize, maize pops cereal, maize

Fumonisins

products, maize starch, maize (infant cream corn), meal (maize), pasta, popcorn, porridge, products, sorghum, tortillas

Mulberries

see Berries (mulberry)

Mung beans

see Beans

Must may contain the following mycotoxins:

OCHRATOXIN A

incidence: 2/20*, conc. range: 0.06–0.18 μ g/l, \varnothing conc.: 0.13 μ g/l, country: Spain²⁶⁹, *white and red

see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts

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(pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

PATULIN

incidence: 21/55, conc. range: ≤230 µg/l, country: Germany⁶⁹³ see also apple cider, apple flavor, apples (stewed fruit), berries (blueberry), berries (lingnonberry), berries (mulberry), berries (raspberry), berries (strawberry), cassava, cheese, food (baby), fruit products, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (pear), fruits (plum), jam, jam (apple), juice, juice (apple), juice (apple, concentrate), juice (cherry), juice (currant), juice (fruit), juice (grape), juice (orange), juice (peach), juice (pear), pulp (plum), syrup (apple), vinegar

Mustard

see Spices (mustard)

Mustard oil

see Oil (mustard)

Nixtamalized corn

see Maize

Nienga

see Maize

Noodles may contain the following mycotoxins:

Aflatoxins (B_1, B_2, G_1, G_2) incidence: 1/4*, conc.: 0.4 µg/kg, country: UK⁷³², *wheat see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (fig), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

Deoxynivalenol

Germany⁴³² incidence: 27/29, conc. range: 15–1670 μg/kg, \emptyset conc.: 158 μg/kg, country: Germany⁵¹⁷ incidence: ?/4*, conc. range: 11–92 μg/kg, country: UK⁷³², *wheat incidence: 1/3*, conc.: 470 μg/kg, country:

incidence: 1/2, conc.: 60 µg/kg, country:

incidence: 1/3*, conc.: 470 μg/kg, country: Turkey⁸⁶³, *macaroni, home made see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum,

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soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

15-Acetyldeoxynivalenol

incidence: 1/2, conc.: 60 µg/kg, country: Germany⁴³²

incidence: 1/29, conc.: 280 µg/kg, country: Germany⁵¹⁷

see also barley, bran (oat), bran (wheat), cereals (breakfast), flour (maize), flour (wheat), food, grits (maize), maize, oat products, oats, snacks, wheat

Fumonisins (B_1, B_2)

incidence: 1/4*, conc.: 26 µg/kg, country: UK⁷³², *wheat

see also beer, flour (maize), food (infant), maize, meal (maize), rice, spice powder, spices (chilli pickle), spices (curry), spices (curry paste), spices (curry powder), spices (tandoori)

HT-2 Toxin

incidence: 8/29, conc. range: 12–25 µg/kg, Ø conc.: 13 µg/kg, country: Germany⁵¹⁷ see also barley, bran (oat), bran (wheat), bread, cereal (baby), cereals, cereals (breakfast), flakes (oat), flour (maize), flour (wheat), food, food (baby), germ (wheat), grits (maize), groats (oat), maize, nuts (hazelnut), oat products, oats, products, pumpkin seeds, rye, spices (chilli powder), spices (curry), sunflower seeds, wheat

Nivalenol

incidence: 1/29, conc.: 52 µg/kg, country: Germany⁵¹⁷

incidence: ?/4*, conc. range: 14-26 µg/kg,

country: UK732, *wheat see also barley, beer, biscuits, bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, germ (wheat), grits (maize), grits (wheat), Job's-tears, maize, malt (barley), meal (millet), millet, oat products, oats, rice, rye, snacks, sorghum, soybeans, spices (chilli sauce), spices (curry), spices (curry paste), spices (curry powder), spices (garlic), spices (ginger), spices (tandoori), wheat

OCHRATOXIN A

incidence: 1/16, conc.: 0.1-0.3 µg/kg,

country: Taiwan607

incidence: 1/4*, conc.: 0.2 μg/kg, country:

UK⁷³², *wheat

see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices

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(curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Nutmeg

see Spices (nutmeg)

Nut butter

see Butter

Nut cereals may contain the following mycotoxins:

AFLATOXINS (TOTAL) incidence: 1/1*, conc.: ≈2.2 μg/kg, country: Poland¹¹⁰, * imported see also beans, butter, figs, maize, nuts (almond), nuts (brazil), nuts (cashew), nuts ("chico–felix"), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), paste (fig), rice, sunflower seeds

Nut cocktail may contain the following mycotoxins:

Aflatoxin B_1

incidence: 1/1*, conc.: 0.29 μg/kg, country: Spain²⁶¹, * imported?

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri,

kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN G₁ incidence: 1/1*, conc.: 0.47 μg/kg, country: Spain²⁶¹, * imported? see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products),

nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli) powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

Nut slice may contain the following mycotoxins:

OCHRATOXIN A

incidence: 1/1, conc.: 1.3 μg/kg, country: Germany⁶⁴⁰

see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nuts, nuts (almond), nuts (cashew),

nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Nuts may contain the following mycotoxins:

Aflatoxin B₁

incidence: $2/10^*$ **, conc. range: 10-93 µg/kg, \varnothing conc.: 51.5 µg/kg, country: Finland¹³⁸, *imported, **mixed

incidence: 8/167* **, conc. range: ≤2.3 µg/kg, country: USSR¹⁹¹, *imported, **almonds and cashews

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe

deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxin B₂

incidence: 1/10*, conc.: 29 μg/kg, country: Finland¹³⁸, *imported, **mixed incidence: 1/16*, conc.: tr, country: Norway¹⁹⁸, *imported, **mixed see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts

(almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

AFLATOXIN G₁

incidence: 1/16*, conc.: tr, country: Norway¹⁹⁸, *imported, **mixed see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

Aflatoxin G_2

incidence: 1/16*, conc.: tr, country: Norway¹⁹⁸, *imported, **mixed see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs,

fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

AFLATOXINS (B₁, B₂, G₁, G₂) incidence: 12/35*, conc. range: 2–276 μg/kg, country: Australia¹³, *includes nuts and nut products

see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (fig), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

Aflatoxins

incidence: 1/5*, conc.: 6 μg/kg, country: Qatar¹, *most of the sa from Iran, Syria, Turkey, USA, **mixed incidence: 1/3, conc.: 7 μg/kg, country: USA¹97, **mixed incidence: 3/29, conc. range: 6–10 μg/kg (2 sa), >50 μg/kg (1 sa), country: Malaysia³9¹ see also beans, candy (peanut), candy (pistachio), cassava, figs, flour (maize), grain

mixtures, grains, maize, maize dough, maize products, melon seeds, millet, nuts (almond), nuts (brazil), nuts (peanut), nuts (peanut butter), nuts (peanut mix), nuts (peanut products), nuts (pecan), nuts (pistachio), nuts (walnut), nuts and seeds, paste (peanut), paste (pipian), peas, rice, sauce (leaf), snacks, sorghum, spices, spices (chilli), spices (cumin), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper), spices (tandoori), teff, tubers, wheat

OCHRATOXIN A

incidence: 26/125*, conc. range: <0.27 µg/kg, country: Germany⁵⁹², *different see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, ligourice, ligourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas,

pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Nuts (almond) may contain the following mycotoxins:

Aflatoxin B_1

incidence: 15/19*, conc. range: 0.5–5 µg/kg (14 sa), 6 µg/kg (1 sa), country: UK⁶⁰, *ground

incidence: $19^*/23^{**}$, conc. range: 39-4000 µg/kg, country: Germany⁶⁷, *moldy, **sweet incidence: $1/184^*$ **, conc.: tr, country: Finland¹³⁸, *sliced and crushed, **imported incidence: $1/6^*$ **, conc.: 67 µg/kg, country: Finland¹³⁸, *bitter, **imported

incidence: 1/110*, conc.: 93 μg/kg, country: Finland¹³⁸, *imported

incidence: 1/3, conc.: 5566.6 μg/kg, country: Egypt¹⁴⁴

incidence: $26/29^*$, conc. range: 0.05-0.1 µg/kg (5 sa), 0.11-1 µg/kg (8 sa), 1.1-5 µg/kg (8 sa), 5.1-10 µg/kg (2 sa), 11-40 µg/kg (3 sa), \varnothing conc.: 3.4 µg/kg, country: France³⁹⁷, * ground and powdered

incidence: 2/6, conc. range: 0.05–0.1 μ g/kg (1 sa), 0.11–1 μ g/kg (1 sa), \varnothing conc.: 0.15 μ g/kg, country: France³⁹⁷

incidence: 1/34, conc.: 95 μg/kg, country: Spain⁴⁸⁸

incidence: 2/6*, conc. range: 25–71 μg/kg, Ø conc.: 48 μg/kg, country: India⁸⁰², *cuddapah incidence: 3/8, conc. range: 18–194 μg/kg, country: India⁸⁰²

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

267 Nuts (almond)

Aflatoxin B₂

incidence: 1/6*, conc.: 5 µg/kg, country: Finland¹³⁸, *bitter, **imported

incidence: 1/110*, conc.: 14 µg/kg, country:

Finland¹³⁸, *imported

incidence: 1/34, conc.: 15 µg/kg, country:

Spain⁴⁸⁸

incidence: 1/6*, conc.: 17 μg/kg, country:

India⁸⁰², *cuddapah

incidence: 2/8, conc. range: 20–125 µg/kg, Ø conc.: 72.5 µg/kg, country: India⁸⁰² see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Aflatoxin G₁

incidence: 1/6*, conc.: 25 μg/kg, country: India⁸⁰², *cuddapah

incidence: 2/8, conc. range: 19–30 µg/kg, Ø conc.: 24.5 µg/kg, country: India⁸⁰² see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina,

Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cavenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

Aflatoxins (B_1, B_2, G_1, G_2) incidence: 2/78, conc. range: 5-9.9 µg/kg (1 sa), >25 μg/kg (1 sa), country: Canada⁵⁹ incidence: 15/19* **, conc. range: 0.5-5 µg/kg (13 sa), 6-10 μg/kg (2 sa, with a maximum of 10 μg/kg), country: UK⁶⁰, *ground, **imported incidence: 1/4*, conc.: 0.8 µg/kg, country: UK⁷³², *imported see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (fig), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cavenne), sunflower seeds, vegetables, wheat

Nuts (almond) 268

AFLATOXINS (TOTAL) incidence: 1/2*, conc.: ≈2.1, country: Poland¹¹⁰, *imported incidence: 1/1*, conc.: ≈0.9, country: Poland¹¹⁰, *from California see also beans, butter, figs, maize, nut cereals, nuts (brazil), nuts (cashew), nuts ("chico–felix"), nuts (hazelnut), nuts (peanut), nuts (peanut), nuts (peanut), nuts (pistachio), nuts (walnut), paste (fig), rice, sunflower seeds

AFLATOXINS

incidence: 1/5, conc.: 10 μg/kg, country: USA¹⁹⁷

see also beans, candy (peanut), candy (pistachio), cassava, figs, flour (maize), grain mixtures, grains, maize, maize dough, maize products, melon seeds, millet, nuts, nuts (brazil), nuts (peanut), nuts (peanut butter), nuts (peanut mix), nuts (peanut products), nuts (pecan), nuts (pistachio), nuts (walnut), nuts and seeds, paste (peanut), paste (pipian), peas, rice, sauce (leaf), snacks, sorghum, spices, spices (chilli), spices (cumin), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper), spices (tandoori), teff, tubers, wheat

OCHRATOXIN A

incidence: 1/12, conc. range: 0.2-0.49 µg/kg, country: Germany⁶²³ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits,

grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Rubratoxin

incidence: 1/6*, conc.: 310 μg/kg, country: India⁸⁰², *cuddapah see also nuts (walnut), spices (turmeric), wheat

Sterigmatocystin

incidence: 2/8, conc. range: 96–130 µg/kg, \varnothing conc.: 113 µg/kg, country: India⁸⁰² see also barley, cassava, cheese, coffee, maize, nuts (pecan), nuts (pistachio), oil seed rape, rice, spices, spices (fennel), spices (pepper), wheat

269 Nuts (Brazil)

Zearalenone

incidence: 1/6*, conc.: pr, country: India⁸⁰², *cuddapah

incidence: 1/8, conc.: pr, country: India802 see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Nuts (Brazil) may contain the following mycotoxins:

Aflatoxin B_1

incidence: 5/23* **, conc. range: 0.5–5 μg/kg (4 sa), 33 μg/kg (1 sa), country: UK⁶⁰, *imported, **in–shell

incidence: 10/51, conc. range: 8.3–20 µg/kg, \varnothing conc.: 14.1 µg/kg, country: Cyprus⁷⁴ incidence: 1/4, conc.: 10.2 µg/kg, country: Japan⁹⁹

incidence: 16/27*, conc. range: 3–4200 μg/kg, Ø conc.: 500.2 μg/kg, country: Norway¹⁹⁸, *imported

incidence: 1/2*, conc.: 26 μg/kg, country: Brazil⁷²³, *ground

incidence: $4/12^*$, conc. range: LOQ-2 µg/kg (4 sa, with a maximum of 0.8 µg/kg), country: UK⁸³⁴, *imported

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips

(yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxin B_2

incidence: 10/51, conc. range: 1.1 μ g/kg, \varnothing conc.: 1.1 μ g/kg, country: Cyprus⁷⁴

Nuts (Brazil) 270

incidence: 1/4, conc.: 0.8 μg/kg, country: Japan⁹⁹

incidence: 16/27*, conc. range: tr-1600 µg/kg, country: Norway¹⁹⁸, *imported see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

AFLATOXIN G₁

incidence: 10/51, conc. range: 2.3–9.4 μg/kg, Ø conc.: 5.8 μg/kg, country: Cyprus⁷⁴ incidence: 1/4, conc.: 3.2 μg/kg, country: Japan⁹⁹

incidence: 16/27*, conc. range: 2–3250 μg/kg, Ø conc.: 478.2 μg/kg, country: Norway¹⁹⁸, *imported

see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts

(almond), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

Aflatoxin G₂

incidence: 1/4, conc.: 0.3 μg/kg, country: Japan⁹⁹

incidence: 16/27*, conc. range: tr-600 μg/kg, country: Norway¹⁹⁸, *imported see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts, nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

AFLATOXINS (B₁, B₂, G₁, G₂) incidence: 31/69*, conc. range: 6–10 μg/kg (1 sa), 11–20 μg/kg (3 sa), 21–50 μg/kg (1 sa), 51–100 μg/kg (3 sa), 101–1000 μg/kg (7 sa), 1001–10,000 μg/kg (11 sa), >10,000 μg/kg (5 sa), country: Sweden¹⁶¹, *imported; edible, possibly edible and inedible nuts incidence: 3/3*, conc. range: 10.1–20 μg/kg (2 sa), 150 μg/kg (1 sa), country: UK⁷³⁹, *port sa

271 Nuts (cashew)

see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (fig), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

AFLATOXINS (TOTAL)

incidence: 5/23*, conc. range: 0.5–5 μg/kg (3 sa), 6–10 μg/kg (1 sa), 60 μg/kg (1 sa), country: UK⁶⁰, *in–shell see also beans, butter, figs, maize, nut cereals, nuts (almond), nuts (cashew), nuts ("chico–felix"), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), paste (fig), rice, sunflower seeds

Aflatoxins

incidence: 6/12*, conc. range: ≤42 μg/kg, Ø conc.: 20 μg/kg, country: USA¹⁹⁷, *shelled see also beans, candy (peanut), candy (pistachio), cassava, figs, flour (maize), grain mixtures, grains, maize, maize dough, maize products, melon seeds, millet, nuts, nuts (almond), nuts (peanut), nuts (peanut butter), nuts (peanut mix), nuts (peanut products), nuts (pecan), nuts (pistachio), nuts (walnut), nuts and seeds, paste (peanut), paste (pipian), peas, rice, sauce (leaf), snacks, sorghum, spices, spices (chilli), spices (cumin), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper), spices (tandoori), teff, tubers, wheat

Nuts (cashew) may contain the following mycotoxins:

Aflatoxin B_1 incidence: 1*/6, conc.: 830 μg/kg, country: Germany⁶⁷, *moldy incidence: 1/8*, conc.: 10 μg/kg, country: Brazil⁷²³, *ground incidence: 3/7, conc. range: 20-190 µg/kg, country: India⁸⁰² see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices Nuts (cashew) 272

(fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxin B₂

incidence: 2/7, conc. range: 15–161 µg/kg, ∅ conc.: 88 µg/kg, country: India802 see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Aflatoxin G_1

incidence: 1/8*, conc.: 15 μg/kg, country: Brazil⁷²³, *ground incidence: 2/7, conc. range: 18–72 μg/kg, Ø conc.: 45 μg/kg, country: India⁸⁰² see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina,

Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

AFLATOXIN G₂

incidence: 1/7, conc.: 20 μg/kg, country: India⁸⁰²

see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

Aflatoxins (B_1, B_2, G_1, G_2)

incidence: 23/120, conc. range: 5–24.9 μg/kg (19 samples), >25 μg/kg (4 sa), country: Canada⁵⁹

incidence: 1/3*, conc.: tr, country: Norway¹⁹⁸, *imported

see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, 273 Nuts ("chico–felix")

lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (fig), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

AFLATOXINS (TOTAL) incidence: 1/3*, conc.: ≈ 2.7, country: Poland¹¹⁰, * imported see also beans, butter, figs, maize, nut cereals, nuts (almond), nuts (brazil), nuts ("chico–felix"), nuts (hazelnut), nuts (peanut), nuts (peanut), nuts (pistachio), nuts (walnut), paste (fig), rice, sunflower seeds

Citrinin

incidence: 1/7, conc.: 40 μg/kg, country: India⁸⁰²

see also angkak (red mold rice), barley, cereals, cheese, food, food colorant, fruits (apple), maize, maize dough, meal (copra), nuts (coconut), nuts (grogannut), nuts (peanut), oil seed rape, olives, rice, spices, spices (cardamom), spices (coriander), spices (cumin), spices (fennel), spices (pepper), spices (turmeric), wheat

OCHRATOXIN A

incidence: 2/7, conc. range: pr, country: India⁸⁰²

see also barley, beans,

beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings,

currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Nuts ("chico–felix") may contain the following mycotoxins:

Aflatoxins (Total) incidence: 1/5*, conc.: \approx 3.7 µg/kg, country: Poland¹¹⁰, * imported?

Nuts ("chico-felix") 274

see also beans, butter, figs, maize, nut cereals, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), paste (fig), rice, sunflower seeds

Nuts (coconut) may contain the following mycotoxins:

Aflatoxin B_1

incidence: 5/25, conc. range: 15–25 μg/kg, country: Egypt⁴⁹¹

incidence: 5/9, conc. range: 28–260 µg/kg,

country: India802

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (chashew), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas,

poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxin B₂

incidence: 5?/9, conc. range: 15–109 μg/kg, country: India⁸⁰²

see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

AFLATOXIN G₁ incidence: 5?/9, conc. range: 12–75 μg/kg, country: India⁸⁰² see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast),

275 Nuts (coconut)

cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

AFLATOXIN G₂

incidence: 2/9, conc. range: 20–68 µg/kg, Ø conc.: 44 µg/kg, country: India⁸⁰² see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

CITRININ

incidence: 4/9, conc. range: 5–60 μg/kg, country: India⁸⁰² see also angkak (red mold rice), barley, cereals, cheese, food, food colorant, fruits (apple), maize, maize dough, meal (copra),

nuts (cashew), nuts (grogannut), nuts (peanut), oil seed rape, olives, rice, spices, spices (cardamom), spices (coriander), spices (cumin), spices (fennel), spices (pepper), spices (turmeric), wheat

OCHRATOXIN A

incidence: 3/25, conc. range: 50-205 µg/kg, country: Egypt⁴⁹¹ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice

Nuts (coconut) 276

powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Nuts (coconut products) may contain the following mycotoxins:

Aflatoxin B₁

incidence: 7/25, conc. range: 0.05-0.1 µg/kg (7 sa), Ø conc.: 0.07 µg/kg, country: France³⁹⁷ see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts

(pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Nuts (grogannut) may contain the following mycotoxins:

Aflatoxin B_1

incidence: 3/9, conc. range: 20–150 $\mu g/kg$, country: India 802

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast),

277 Nuts (grogannut)

milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxin B₂

incidence: 2/9, conc. range: 15–75 µg/kg, Ø conc.: 45 µg/kg, country: India802 see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices

(cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

AFLATOXIN G₁

incidence: 2/9, conc. range: 16–76 µg/kg, Ø conc.: 46 µg/kg, country: India⁸⁰² see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

Aflatoxin G₂

incidence: 1/9, conc.: 10 μg/kg, country: India⁸⁰²

see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices

Nuts (grogannut) 278

(cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

CITRININ

incidence: 2/9, conc. range: $4-20~\mu g/kg$, \varnothing conc.: 12 $\mu g/kg$, country: India⁸⁰² see also angkak (red mold rice), barley, cereals, cheese, food, food colorant, fruits (apple), maize, maize dough, meal (copra), nuts (cashew), nuts (coconut), nuts (peanut), oil seed rape, olives, rice, spices, spices (cardamom), spices (coriander), spices (cumin), spices (fennel), spices (pepper), spices (turmeric), wheat

Nuts (hazelnut) may contain the following mycotoxins:

Aflatoxin B_1 incidence: 1/3*, conc.: 0.6 μg/kg, country: UK60, *shelled incidence: 2/18*, conc. range: ≤0.7 µg/kg (2 sa), country. UK60, in-shelled incidence: 18/29*, conc. range: 5-50,000 μg/kg, country: Germany⁶⁷, *moldy incidence: 1/199*, conc.: 325 µg/kg, country: Finland¹³⁸, *imported incidence: 1/5*, conc.: 0.42 μg/kg, country: Spain²⁶¹, *partly imported see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe

deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂ incidence: 1/199*, conc.: 29 µg/kg, country: Finland¹³⁸, *imported see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut),

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nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Aflatoxin G₁

incidence: 1/5*, conc.: 0.52 μg/kg, country: Spain²⁶¹, *partly imported see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

AFLATOXINS (B₁, B₂, G₁, G₂) incidence: 3/35*, conc. range: 6–10 μg/kg, country: Sweden¹⁶¹, *imported; edible, possibly edible and inedible nuts incidence: 18/20, conc. range: 25–175 μg/kg, country: Egypt⁴⁹⁰ see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour

(maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (fig), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

AFLATOXINS (TOTAL) incidence: 1/1*, conc.: ≈3.1, country: Poland¹¹⁰, * imported? see also beans, butter, figs, maize, nut cereals, nuts (almond), nuts (brazil), nuts (cashew), nuts ("chico–felix"), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), paste (fig), rice, sunflower seeds

HT-2 Toxin

incidence: 1/5, conc.: 5 μg/kg, country: Germany⁵²⁰

see also barley, bran (oat), bran (wheat), bread, cereal (baby), cereals, cereals (breakfast), flakes (oat), flour (maize), flour (wheat), food, food (baby), germ (wheat), grits (maize), groats (oat), maize, noodles, oat products, oats, products, pumpkin seeds, rye, spices (chilli powder), spices (curry), sunflower seeds, wheat

OCHRATOXIN A

incidence: 19/32, conc. range: ≤0.08 μg/kg, country: Germany⁵⁹²

incidence: 2/11, conc. range: 0.1–0.19 μg/kg (1 sa), 0.5–12.49 μg/kg (1 sa), country: Germany⁶²³

incidence: 3/57, conc. range: $1.8-4.7 \mu g/kg$, country: Germany⁶⁴⁰ see also barley, beans, beef, beer, berries

see also barley, beans, beer, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat,

Nuts (hazelnut) 280

butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

T-2 Toxin

incidence: 1/5, conc.: 6 μg/kg, country: Germany⁵²⁰

see also barley, beans, beer, bran (oat), bran (wheat), bread, cereals, cereals (breakfast), flakes (oat), flour, flour (maize), flour (wheat), food, grits (maize), maize, nuts (peanut), oat products, oats, rice, rye, sorghum, spices (curry), spices (ginger), spices (tandoori), sunflower seeds, wheat

Zearalenone

incidence: 1/5, conc.: 6 μg/kg, country: Germany⁵²⁰

see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rve), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Nuts (peanut) may contain the following mycotoxins:

Aflatoxin B₁

incidence: 26/86, conc. range: 10–2000 μg/kg, Ø conc.: 420.4 μg/kg, country: Brazil⁸ incidence: 926/2062, conc. range: >5–833 μg/kg, contry: India¹⁷ incidence: 4/65, conc. range: 6–46 μg/kg, country: Tunisia²⁰ incidence: 48/171*, conc. range: 6–10 μg/kg (2 sa), 11–25 μg/kg (9 sa), 26–50 μg/kg (7 sa), 51–100 μg/kg (11 sa), 101–200 μg/kg (11

sa), 201-300 μg/kg (3 sa), 301-400 μg/kg (4 incidence: 3/34, conc. range: 5–40 µg/kg, Ø sa), $>400 \mu g/kg$ (1 sa), country: UK²⁴, * from conc.: 32.5 µg/kg, country: Germany⁶⁷, *from Sudan different countries incidence: 10/32, conc. range: 8–100 µg/kg, Ø incidence: 1/1, conc.: 625 µg/kg, country: conc.: 35.6 μg/kg, country: Germany³⁹, * Germany⁶⁷, *from Angola incidence: 1/2*, conc.: 2.7 μg/kg, country: from Mozambique Syria⁶⁸, *shelled, raw incidence: 3/32, conc. range: 5.6–6.2 µg/kg, Ø incidence: 2/3*, conc. range: 0.4–1.9 µg/kg, Ø conc.: 6 μg/kg, country: Germany³⁹, * from conc.: 1.2 µg/kg, country: Syria⁶⁸, *shelled, Mozambique roasted incidence: 3/40, conc. range: 98-1056 µg/kg, incidence: 2/2* **, conc. range: 43-432 μg/kg, country: Egypt⁴³ \emptyset conc.: 237.5 µg/kg, country: UK⁷⁰, *ncac, incidence: 37/190*, conc. range: 6.5-<26 **imported μg/kg, country: Egypt⁴⁴, *in-shell incidence: 179/1860, conc. range: <0.4-700 incidence: 76/155*, conc. range: 6.5–<52 μg/kg, Ø conc.: 25.6 μg/kg, country: Cyprus⁷⁴ μg/kg, country: Egypt44, *shelled incidence: 11/149, conc. range: 0.4-21.7 incidence: 2/58*, conc. range: 52-<104 µg/kg, μg/kg, Ø conc.: 4.1 μg/kg, country: Japan⁹⁹ country: Egypt⁴⁴, *roasted incidence: 9/104*, conc. range: tr-954 µg/kg, incidence: 208/515, conc. range: 1-10 µg/kg country: Finland¹³⁸, *imported (28 sa), $>10-20 \mu\text{g/kg}$ (85 sa), $>20-50 \mu\text{g/kg}$ incidence: 8/121* **, conc. range: 3-716 (10 sa), $>50-100 \mu g/kg (6 \text{ sa})$, >100-500µg/kg, Ø conc.: 160 μg/kg, country: $\mu g/kg$ (23 sa), >500–2000 $\mu g/kg$ (31 sa), Finland¹³⁸, *shelled, roasted, **imported >2000 μg/kg (25 sa), country: Cuba⁴⁷ incidence: 20/68* **, conc. range: tr-716 incidence: 3/17*, conc. range: 0.5-<3 µg/kg, μg/kg, country: Finland¹³⁸, *sliced and country: UK⁶⁰, *chocolate-coated crushed, **imported incidence: 3/14* **, conc. range: 0.5-<5 incidence: 5/45, conc. range: 90.9-5871.4 μg/kg, country: UK⁶⁰, *dry roasted, $\mu g/kg$, \varnothing conc.: 1877.5 $\mu g/kg$, country: **imported Egypt¹⁴⁴ incidence: 12/12* **, conc. range: 0.5-5 µg/kg incidence: 1/65*, conc.: 120 μg/kg, country: (9 sa), 11-30 μg/kg (2 sa), 2520 μg/kg (1 sa), Spain¹⁵⁷, *in-shell country: UK60, *in-shell, raw, **imported incidence: 10/20, conc. range: 1-50 µg/kg (3 incidence: 5/8* **, conc. range: 0.5-3 µg/kg sa), 51–150 μg/kg (3 sa), 151–300 μg/kg (2 (2 sa), 88 μ g/kg (1 sa), country: UK⁶⁰, sa), 301–700 μg/kg (2 sa), country: India¹⁷⁴ *shelled, raw, **imported incidence: 5/15*, conc. range: 1-50 μg/kg (3 incidence: 5/13* **, conc. range: 0.5-5 µg/kg sa), $\leq 85 \,\mu\text{g/kg}$ (2 sa), country: India¹⁷⁴, (4 sa), 9 μg/kg (1 sa), country: UK⁶⁰, *in-shell, roasted, **imported incidence: ?/8, conc. range: 534-880 µg/kg, incidence: 3/17* **, conc. range: 0.5-5 μg/kg country: Nigeria¹⁷⁷ (2 sa), 6 μg/kg (1 sa), country: UK⁶⁰, incidence: 39/40*, conc. range: 1.3-1600 *roasted, **imported μg/kg, country: GDR¹⁷⁸, *imported incidence: 2/6, conc. range: 3.6-5.4 µg/kg, incidence: 3/8, conc. range: 40–430 µg/kg, Ø country: Egypt⁶² conc.: 263.3 µg/kg, country: Taiwan¹⁹⁰ incidence: 46/62*, conc. range: 20-28,000 incidence: 788/1559*, conc. range: ≤3650 μg/kg, country: Germany⁶⁷, *moldy μg/kg, country: USSR¹⁹¹, *imported incidence: 11/812, conc. range: 5-20 µg/kg, incidence: 7/40*, conc. range: tr-400 μg/kg, country: Germany⁶⁷, *from South Africa country: Norway¹⁹⁸, *imported incidence: 5/94, conc. range: 5-625 µg/kg, incidence: 1*/1**, conc.: 62.2 μg/kg, country: country: Germany⁶⁷, *from USA USA²⁰¹, *from the WHO, **ncac

incidence: 32*/200, conc. range: 54-1806 μg/kg, country: Nepal²³⁹, *>30 μg/kg incidence: 32/72*, conc. range: 1-679 µg/kg, Ø conc.: 93.7 μg/kg, country: Brazil²⁵⁸, *imported? incidence: 78/120, conc. range: 1.3-223 µg/kg, Ø conc.: 27 μg/kg, country: Botswana²⁷⁰ incidence: 3/11* **, conc. range: 0.13-0.25 $\mu g/kg$, \varnothing conc.: 0.18 $\mu g/kg$, country: Spain³⁰², *from Brazil, China, USA and unknown origin, **different kinds of peanuts incidence: 2/50*, conc. range: 435-625 µg/kg, Ø conc.: 530 μg/kg, country: Argentina³³⁵, *ncac incidence: 3/23, conc. range: 0.11-1 µg/kg (2 sa), 5.1–10 μg/kg (1 sa), Ø conc.: 3 μg/kg, country: France³⁹⁷ incidence: 1/34, conc.: <10 µg/kg, country: Spain⁴⁸⁸ incidence: 10/10, conc. range: 1.5-10 µg/kg, Ø conc.: 4.8 μg/kg, country: Côte d'Ivoire⁵⁵⁷ incidence: 2/?, conc. range: tr-50 µg/kg, country: Kenya746 incidence: 3/6, conc. range: 20-200 µg/kg, country: India802 incidence: 50/50*, conc. range: 2–17,203 μg/kg, Ø conc.: 1377 μg/kg, country: USA⁸²⁶, *for oil production or feed incidence: 8/19*, conc. range: LOQ-2 µg/kg (5 sa), $>2-5 \mu\text{g/kg}$ (1 sa), $>5 \mu\text{g/kg}$ (2 sa)with a maximum of 60.9 μg/kg), country: UK834, *imported incidence: 1/26*, conc.: 0.1 μg/kg, country: Japan⁸⁵⁶, *shelled, roasted see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxin B₂

incidence: 20/86, conc. range: 10–400 μg/kg, Ø conc.: 133.6 μg/kg, country: Brasil⁸ incidence: 10/32, conc. range: 1.4–15.4 μg/kg, Ø conc.: 5.5 μg/kg, country: Germany³⁹, *from Mozambique incidence: 3/32, conc. range: 2.6–3.3 μg/kg, Ø conc.: 3 μg/kg, country: Germany³⁹, *from Mozambique incidence: 37/190*, conc. range: ≤6.5 μg/kg, country: Egypt⁴⁴, *in-shell incidence: 76/155*, conc. range: ≤6.5 μg/kg, country: Egypt⁴⁴, *shelled

incidence: 2/6, conc. range: 1.8-2.6 µg/kg, Ø conc.: 2.2 μg/kg, country: Egypt⁶² incidence: 1/1, conc.: 180 µg/kg, country: Germany⁶⁷, *from Angola incidence: 2/3*, conc. range: 0.3–0.6 µg/kg, Ø conc.: 0.5 µg/kg, country: Syria⁶⁸, *shelled, incidence: 2/2* **, conc. range: 10.5-74 μ g/kg, Ø conc.: 42.3 μ g/kg, country: UK⁷⁰, *ncac, **imported incidence: 179/1860, conc. range: <0.3-12.5 μg/kg, Ø conc.: 1.5 μg/kg, country: Cyprus⁷⁴ incidence: 11/149, conc. range: 0.1-5.3 µg/kg, Ø conc.: 0.9 μg/kg, country: Japan⁹⁹ incidence: 9/104*, conc. range: tr-568 μg/kg, country: Finland¹³⁸, *imported incidence: 8/121* **, conc. range: 1-89 µg/kg, Ø conc.: 21.6 μg/kg, country: Finland¹³⁸, *shelled, roasted, **imported incidence: 18/68* **, conc. range: tr-76 μg/kg, country: Finland¹³⁸, *sliced and crushed, **imported incidence: 4/45, conc. range: 375-5567 µg/kg, Ø conc.: 2283.5 μg/kg, country: Egypt¹⁴⁴ incidence: 1/65*, conc.: 22 µg/kg, country: Spain¹⁵⁷, *in-shell incidence: 39/40*, conc. range: 1.5-744 μg/kg, country. GDR¹⁷⁸, **imported incidence: 30/72*, conc. range: 1-192 μg/kg, Ø conc.: 51 μg/kg, country: Brazil²⁵⁸, *imported? incidence: 48/120, conc. range: 0.5-203 µg/kg, Ø conc.: 49 μg/kg, country: Botswana²⁷⁰ incidence: 2/?, conc. range: tr-1000 µg/kg, country: Kenya⁷⁴⁶ incidence: 2/6, conc. range: 10−135 µg/kg, Ø conc.: 72.5 µg/kg, country: India⁸⁰² incidence: 50/50*, conc. range: 1-2245 µg/kg, Ø conc.: 148 μg/kg, country: USA⁸²⁶, *for oil production or feed see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba,

maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

AFLATOXIN G₁ incidence: 6/86, conc. range: 20–800 µg/kg, Ø conc.: 206.7 µg/kg, country: Brazil8 incidence: 4/65, conc. range: 0.38 µg/kg, country: Tunisia20 incidence: 9/32, conc. range: 1.6-13.8 µg/kg, \emptyset conc.: 5.5 µg/kg, country: Germany³⁹, *from Mozambique incidence: 3/32, conc. range: 4.2–4.8 µg/kg, Ø conc.: 4.4 µg/kg, country: Germany³⁹, *from Mozambique incidence: 37/190*, conc. range: 6.5-<13 μg/kg, country: Egypt⁴⁴, *in-shell incidence: 76/155*, conc. range: 6.5-<26 μg/kg, country: Egypt⁴⁴, *shelled incidence: 1/1, conc.: 315 µg/kg, country: Germany⁶⁷, *imported from Angola incidence: 2/2* **, conc. range: 93.5-115.5 $\mu g/kg$, \varnothing conc.: 104.5 $\mu g/kg$, country: UK⁷⁰, *ncac, **imported incidence: 179/1860, conc. range: <0.4-72.2 μg/kg, Ø conc.: 8.9 μg/kg, country: Cyprus⁷⁴ incidence: 11/149, conc. range: ≤22.1 µg/kg, Ø conc.: 2.8 μg/kg, country: Japan⁹⁹ incidence: 2/104*, conc. range: 3-136 μg/kg, country: Finland¹³⁸, *imported incidence: 2/121* **, conc. range: 12-20 μg/kg, Ø conc.: 16 μg/kg, country: Finland¹³⁸, *shelled, roasted, **imported

incidence: 6/68* **, conc. range: tr-91 µg/kg, Aflatoxin G₂ country: Finland¹³⁸, *sliced and crushed, **imported incidence: 5/45, conc. range: 150-10,458 μ g/kg, Ø conc.: 3561.4 μ g/kg, country: Egypt¹⁴⁴ *from Mozambique incidence: 39/40*, conc. range: 1-1540 µg/kg, country: GDR¹⁷⁸, **imported incidence: 23/72*, conc. range: 1-680 µg/kg, Mozambique \emptyset conc.: 109.8 µg/kg, country: Brazil²⁵⁸, *imported? country: Egypt44, *in-shell incidence: 51/120, conc. range: 0.6-259 µg/kg, country: Egypt⁴⁴, *shelled Ø conc.: 91 μg/kg, country: Botswana²⁷⁰ incidence: 3/11* **, conc. range: 0.61-1.68 μg/kg, Ø conc.: 0.97 μg/kg, country: Spain³⁰², *from Brazil, China, USA and unknown origin, **different kinds of peanuts incidence: 2/50*, conc. range: 83-625 µg/kg, **imported Ø conc.: 354 μg/kg, country: Argentina³³⁵, *ncac incidence: 2/6, conc. range: 12–96 µg/kg, Ø conc.: 54 µg/kg, country: India⁸⁰² incidence: 29/50*, conc. range: 1-2331 µg/kg, Ø conc.: 240 μg/kg, country: USA⁸²⁶, *for oil Finland¹³⁸, *imported production or feed see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), **imported cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits Egypt¹⁴⁴ (mango), Ga Kenkey, gruel, Incaparina, country: GDR¹⁷⁸, **imported Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts *imported? (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), India⁸⁰² nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices production or feed (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine (coconut), nuts (grogannut), nuts (peanut

incidence: 6/86, conc. range: 20–400 µg/kg, Ø conc.: 95 µg/kg, country: Brazil8 incidence: 10/32, conc. range: 1.1-9.9 µg/kg, \emptyset conc.: 4.5 µg/kg, country: Germany³⁹, incidence: 3/32, conc. range: 1.2-3 µg/kg, Ø conc.: 1.8 μg/kg, country: Germany³⁹, *from incidence: 37/190*, conc. range: <6.5 µg/kg, incidence: $76/155^*$, conc. range: $\leq 6.5 \mu g/kg$, incidence: 1/1*, conc.: 40 µg/kg, country: Germany⁶⁷, *imported from Angola incidence: 2/2* **, conc. range: 23-35 μg/kg, \emptyset conc.: 29 µg/kg, country: UK⁷⁰, *ncac, incidence: 179/1860, conc. range: <0.3-3 μg/kg, Ø conc.: 0.6 μg/kg, country: Cyprus⁷⁴ incidence: 11/149, conc. range: 0-6.7 µg/kg, Ø conc.: 0.8 μg/kg, country: Japan⁹⁹ incidence: 1/104*, conc.: 34 μg/kg, country: incidence: 4/68* **, conc. range: tr-14 µg/kg, country: Finland¹³⁸, *sliced and crushed, incidence: 1/45, conc.: 363 µg/kg, country: incidence: 39/40*, conc. range: 1-548 μg/kg, incidence: 22/72*, conc. range: 1-320 µg/kg, \emptyset conc.: 51 µg/kg, country: Brazil²⁵⁸, incidence: 45/120, conc. range: 1-164 µg/kg, \varnothing conc.: 45 µg/kg, country: Botswana²⁷⁰ incidence: 1/6, conc.: 10 µg/kg, country: incidence: 16/50*, conc. range: 1-407 µg/kg, Ø conc.: 63.9 μg/kg, country: USA⁸²⁶, *for oil see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts

butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

Aflatoxin

incidence: 71/173, conc. range: <50 μg/kg (29 sa), 50–250 μg/kg (12 sa), 250–1000 μg/kg (16 sa), >1000 μg/kg (14 sa), country: Sudan⁶⁴ incidence: ?/3, conc. range: ≤34.7 μg/kg, country: Ethopia⁷⁶ incidence: 47/150* conc. range: 6–10 μg/kg

incidence: 47/150*, conc. range: 6–10 μg/kg (22 sa), 14–20 μg/kg (12 sa), 25–30 μg/kg (5 sa), 40–50 μg/kg (3 sa), 60–125 μg/kg (5 sa), country: Israel⁸⁹, *ncac

incidence: $24/77^*$, conc. range: $11-30 \mu g/kg$ (6 sa), $31-100 \mu g/kg$ (6 sa), $\leq 1776 \mu g/kg$ (12 sa), country: India¹⁹⁵, *ncac see also barley, beer, bran (rice), flour (maize), injera, jars, kocho, maize, maize roti, malt (barley), malt (maize), nuts (peanut butter), nuts (pistachio), oil (peanut), paste (pepper, red), rice, spices (pepper)

AFLATOXINS (B₁, G₁) incidence: 274/321*, conc. range: 5–2440 μ g/kg, \varnothing conc.: 305 μ g/kg, country: Brazil²³³, *includes peanut products see also beer, chestnut, nuts (peanut butter)

AFLATOXINS (B₁, B₂, G₁) incidence: 1/10, conc.: $>50 \mu g/kg$ (1 sa with a maximum of 72 $\mu g/kg$) country: Guatemala³³ see also coffee, maize, meal (maize), rice

AFLATOXINS (B_1 , B_2 , G_1 , G_2) incidence: 21/73*, conc. range: 2–61 μg/kg, country: Australia¹³, *includes peanut and peanut butters incidence: 10/32*, conc. range: 12.4–127.2 μg/kg, \varnothing conc.: 50.1 μg/kg, country: Germany³⁹, *from Mozambique incidence: 3/32*, conc. range: 14.6–16 μg/kg, \varnothing conc.: 15.2 μg/kg, country: Germany³⁹, *from Mozambique

incidence: 284/1679, conc. range: 5-24.9 μg/kg (186 sa), >25 μg/kg (98 sa), country: Canada⁵⁹ incidence: 7/150*, conc. range: 5-14.9 µg/kg (5 sa), >25 µg/kg (2 sa), country: Canada⁵⁹, *processed incidence: 93/120, conc. range: 12-329 μg/kg, Ø conc.: 118 μg/kg, country: Botswana²⁷⁰ incidence: 11/35, conc. range: ≤936 µg/kg, Ø conc.: 440 µg/kg, country: Brazil²⁷⁷ incidence: 3/11* **, conc. range: 1-3.9 µg/kg (1 sa), $>50 \mu g/kg$ (2 sa, with a maximum of 61 μg/kg), country: UK⁷³⁹, *port sa, **imported incidence: 2/36* **, conc. range: >50 μg/kg (2 sa, with a maximum of 105 μg/kg), country: UK⁷³⁹, *retail sa, **imported incidence: 15/29, conc. range: 3.2-48 µg/kg, Ø conc.: 14 μg/kg, country: Botswana⁸¹³ see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (fig), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

AFLATOXINS (TOTAL) incidence: $3/17^*$ **, conc. range: $0.5-\le 5$ µg/kg, country: UK⁶⁰, *chocolate–coated, **imported incidence: $3/14^*$ **, conc. range: $0.5-\le 5$ µg/kg, country: UK⁶⁰, *dry roasted, **imported incidence: $4/17^*$ **, conc. range: 0.5-5 µg/kg (3 sa), 7 µg/kg (1 sa), country: UK⁶⁰, *roasted, **imported

incidence: 13/24* **, conc. range: 0.5-5 µg/kg incidence: 56/200, conc. range: 0.2-8.4 µg/kg, country: Sudan⁶⁵ (8 samples), 6–10 μg/kg (1 sa), 11–30 μg/kg (1 sa), 31–100 μg/kg (2 sa), 4920 μg/kg (1 sa), incidence: 3/3*, conc. range: 1.7-5.73 µg/kg, Ø conc.: 3.6 μg/kg, country: Sudan⁶⁵, grey country: UK60, *in-shell, raw, **imported incidence: 5/8* **, conc. range: 0.5-3 µg/kg roasted incidence: 4/4*, conc. range: 4.3-14.3 µg/kg, (2 sa), 182 μ g/kg (1 sa), country: UK⁶⁰, *shelled, raw, **imported Ø conc.: 8.2 μg/kg, country: Sudan⁶⁵, red incidence: 7/13* **, conc. range: 0.5-5 µg/kg roasted incidence: 1/4*, conc.: 273 μg/kg, country: (3 sa), 6–10 μg/kg (2 sa), 11–28 μg/kg (2 sa), USA¹⁹⁷, *in-shell, raw country: UK⁶⁰, *in-shell, roasted, **imported incidence: 6/55*, conc. range: <329 µg/kg, Ø incidence: $1/2^*$, conc.: ≈ 1.5 , country: conc.: 68 µg/kg, country: USA¹⁹⁷, *shelled, Poland¹¹⁰, *imported incidence: $1/6^*$ **, conc.: \approx 3.5, country: roasted incidence: 1/1*, conc.: 4 µg/kg, country: Poland¹¹⁰, *salted, **imported USA¹⁹⁷, *shelled, roasted incidence: 31/31*, conc. range: >6.8-20 µg/kg incidence: 28/86*, conc. range: 0.1-5 μg/kg (5 $(3 \text{ sa}), -50 \mu \text{g/kg} (7 \text{ sa}), -100 \mu \text{g/kg} (2 \text{ sa}),$ sa), 6-10 µg/kg (3 sa), 11-20 µg/kg (5 sa), -500 μg/kg (10 sa), -2000 μg/kg (6 sa), -4000 21–35 μg/kg (7 sa), 36–50 μg/kg (1 sa), >50 μg/kg (1 sa), -6000 μg/kg (2 sa), country: μg/kg (7 sa), country: Malaysia³⁹¹, *raw Switzerland¹³¹, *from Ecuador incidence: 9/43*, conc. range: 25-518 µg/kg, incidence: 106/216, Ø conc.: 1530 μg/kg, country: Brazil³⁹⁶, *and products max. conc.: 12,256 μg/kg, country: incidence: 26/27* **, conc. range: 2-5091 Thailand¹⁶³ μg/kg, country: USA⁷¹⁷, *loose-shell, **ncac incidence: 3/19*, conc. range: LOQ-4 µg/kg incidence: 20/21*, conc. range: 3-550 μg/kg, (1 sa), $>10 \mu g/kg$ (2 sa, with a maximum of country: USA⁷¹⁷, *ncac 70.9 μg/kg), country: UK⁸³⁴, *imported incidence: 93/160*, conc. range: tr-5850 see also beans, butter, figs, maize, nut cereals, μg/kg, country: India⁸²¹, *ncac nuts (almond), nuts (brazil), nuts (cashew), see also beans, candy (peanut), candy nuts ("chico-felix"), nuts (hazelnut), nuts (pistachio), cassava, figs, flour (maize), grain (peanut butter), nuts (pistachio), nuts mixtures, grains, maize, maize dough, maize (walnut), paste (fig), rice, sunflower seeds products, melon seeds, millet, nuts, nuts (almond), nuts (brazil), nuts (peanut butter), Aflatoxins nuts (peanut mix), nuts (peanut products), incidence: 1/3* **, conc.: 2.8 μg/kg, country: nuts (pecan), nuts (pistachio), nuts (walnut), Qatar¹, *with shell, **most sa from Iran,

Syria, Turkey, USA incidence: 9/32* ** ***, conc. range: 0.1–≤22.7 µg/kg country: Qatar², *ncac, **includes peanut and peanut products, ***imported incidence: 27*/152, conc. range: 1-100 µg/kg $(11 \text{ sa}), 100-1000 \mu g/kg (8 \text{ sa}), >1000 \mu g/kg$ (8 sa), country: Uganda⁵, *24 sa contained AFB₁, 16 AFB₂, 17 AFG₁, 7 AFG₂ incidence: 5/71, conc.: $>30-\le 100 \mu g/kg$, country: Philippines³² incidence: 3/32, conc. range: 1.2–3 µg/kg, Ø conc.: 1.8 μg/kg, country: Germany³⁹, *from Mozambique

spices (paprika), spices (pepper), spices (tandoori), teff, tubers, wheat CITRININ incidence: 16/160*, conc. range: tr-1200 μg/kg, country: India⁸²¹, *ncac see also angkak (red mold rice), barley, cereals, cheese, food, food colorant, fruits (apple), maize, maize dough, meal (copra),

(grogannut), oil seed rape, olives, rice, spices,

nuts and seeds, paste (peanut), paste

sorghum, spices, spices (chilli), spices

nuts (cashew), nuts (coconut), nuts

(pipian), peas, rice, sauce (leaf), snacks,

(cumin), spices (ginger), spices (nutmeg),

spices (cardamom), spices (coriander), spices (cumin), spices (fennel), spices (pepper), spices (turmeric), wheat

incidence: 18/120, conc. range: 1–10 µg/kg, Ø

CYCLOPIAZONIC ACID

conc.: 2 μg/kg, country: Botswana²⁷⁰ incidence: 2/50*, conc. range: 493–4300 μg/kg, Ø conc.: 2396.5 μg/kg, country: Argentina³³⁵, *ncac incidence: 21/27* **, conc. range: 32–6525 μg/kg, country: USA⁷¹⁷, *loose–shell, **ncac incidence: 4/21*, conc. range: 32–130 μg/kg, country: USA⁷¹⁷, *ncac

incidence: 45/50*, conc. range: tr–2926 μg/kg, country: USA⁸²⁶, *for oil production or feed see also cassava, cheese, maize, milk (cow), pulp (tomato), tomato purée

Fumonisin B₁

incidence: 1/5, conc.: 1000 μg/kg, country: Zimbabwe³⁶⁵

incidence: 7/10, conc. range: <300–600 μg/kg, country: Côte d'Ivoire⁵⁵⁷

see also arepas, asparagus, barley, batter, beans, beer, bran (maize), bread, cake (rice), cereals, cereals (breakfast), chamomile, chips (maize), chips (tortilla), flakes (corn), flour (maize), food, food (baby), foodstuff, grits (maize), Incaparina, leaves, maize, maize fiber, maize muffin, maize products, maize silk, maize starch, masa, meal (maize), meal (sorghum), milk, muffin mix, pancake, popcorn, rapoko, rice, snacks, sorghum, soybeans, syrup (sorghum), tea, tortillas, wheat

OCHRATOXIN A

India⁸⁰²

µg/kg, Ø conc.: 0.32 µg/kg, country: Côte d'Ivoire⁵⁵⁷ incidence: 3/31*, conc. range: ≤0.08 µg/kg, country: Germany⁵⁹², *imported incidence: 6/10, conc. range: 0.6–64 µg/kg, country: Côte d'Ivoire⁶⁴² incidence: 2/18, conc. range: 50–2000 µg/kg, Ø conc.: 1025 µg/kg, country: India⁶⁵⁶ incidence: 2/6, conc. range: pr, country:

incidence: 10/10, conc. range: 0.20-0.64

incidence: 7/20, conc. range: 0.1-2.36 µg/kg, Ø conc.: 0.68 μg/kg, country: Morocco⁸⁵⁹ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard),

spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

DIACETOXYSCIRPENOL

incidence: $2/87^*$, conc. range: 410–2030 µg/kg, \varnothing conc.: 1220 µg/kg, country: India⁴³¹, *ncac

see also beans, beer, bran (wheat), cereals, maize, oats, products, rice, soybeans, spices (chilli powder), spices (curry), wheat

T-2 Toxin

incidence: 6/87*, conc. range: 170–38,890 μg/kg, Ø conc.: 13,127 μg/kg, country: India⁴³¹, *ncac see also barley, beans, beer, bran (oat), bran (wheat), bread, cereals, cereals (breakfast), flakes (oat), flour, flour (maize), flour (wheat), food, grits (maize), maize, nuts (hazelnut), oat products, oats, rice, rye, sorghum, spices (curry), spices (ginger), spices (tandoori), sunflower seeds, wheat

Zearalenone

incidence: 10/10, conc. range: 50-200 µg/kg, Ø conc.: 95 μg/kg, country: Côte d'Ivoire⁵⁵⁷ see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel),

spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Nuts (peanut brittle) may contain the following mycotoxins:

AFLATOXIN B₁

incidence: 8/19*, conc. range: 0.5-5 µg/kg (5 sa), 6–10 μg/kg (1 sa), 11–30 μg/kg (1 sa), 142 μg/kg (1 sa), country: UK⁶⁰, *imported see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices

(chilli powder), spices (coriander), spices (cumin), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxins (B_1, B_2, G_1, G_2) incidence: 8/19*, conc. range: 6-10 µg/kg (6 sa), 31–100 μg/kg (1 sa), 190 μg/kg (1 sa), country: UK60, *imported see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (fig), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

Nuts (peanut butter) may contain the following mycotoxins:

AFLATOXIN B_1 incidence: $9/79^*$ **, conc. range: $2-5 \mu g/kg$ (2 sa), $5.1-10 \mu g/kg$ (3 sa), $11-30 \mu g/kg$ (3 sa), $31-100 \mu g/kg$ (1 sa), country: UK^{28} , *health food, **crunchy incidence: $6/50^*$ **, conc. range: $2-5 \mu g/kg$ (2 sa), $11-30 \mu g/kg$ (4 sa), country: UK^{28} , *health food, **smooth incidence: $5/16^*$ **, conc. range: $2-5 \mu g/kg$ (3 sa), $6-10 \mu g/kg$ (1 sa), $12 \mu g/kg$ (1 sa), country: UK^{60} , *regular, **crunchy incidence: $7/16^*$ **, conc. range: $2-5 \mu g/kg$ (6 sa), $7 \mu g/kg$ (1 sa), country: UK^{60} , *regular, **smooth

incidence: 24/38* **, conc. range: 2–5 μg/kg (7 sa), 6–10 µg/kg (3 sa), 11–30 µg/kg (4 sa), $31-100 \mu g/kg (5 sa), <318 \mu g/kg (5 sa)$ country: UK⁶⁰, *health food, **crunchy incidence: 10/21* **, conc. range: 6-10 µg/kg (2 sa), 11–30 μ g/kg (4 sa), \leq 76 μ g/kg (4 sa), country: UK60, *health food, **smooth incidence: 21/74, conc. range: 1.2-73 µg/kg, Ø conc.: 40.6 μg/kg, country: Cyprus⁷⁴ incidence: 10/63, conc. range: 2-20 µg/kg, Ø conc.: 7 µg/kg, country: USA146 incidence: 2/2, conc. range: 3.5–5.2 µg/kg, Ø conc.: 4.4 µg/kg, country: GDR¹⁷⁸ incidence: 3/6, conc. range: 0.6-2.4 µg/kg, country: Japan 184 incidence: 9/16, conc. range: 20–730 µg/kg, Ø conc.: 217.7 µg/kg, country: Taiwan¹⁹⁰ incidence: 2/2*, conc. range: 1.8–5.5 µg/kg, Ø conc.: 3.7 µg/kg, country: Denmark¹⁹³, *imported incidence: 8/8, conc. range: 0.11-1 µg/kg (4 sa), 1.1-5 μg/kg (4 sa), Ø conc.: 1.3 μg/kg, country: France397 incidence: 19/29*, conc. range: LOQ-2 μg/kg (13 sa), $>2-5 \mu g/kg$ (5 sa), 7.5 $\mu g/kg$ (1 sa), country: UK834, *imported incidence: 15/26*, conc. range: LOQ-2 µg/kg (14 sa), 2.5 μg/kg (1 sa), country: UK⁸³⁴, *imported incidence: 3/4, conc. range: 0.6–1.4 µg/kg, Ø conc.: 1.3 µg/kg, country: Japan⁸⁵⁶ see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe

deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxin B_2

incidence: 1/6, conc.: 0.4 μg/kg, country: Japan¹⁸⁴ incidence: 2/2*, conc. range: 0.4–1 μg/kg, Ø conc.: 0.7 μg/kg, country: Denmark¹⁹³, *imported incidence: 3/4, conc. range: 0.1–0.3 μg/kg, Ø conc.: 0.2 μg/kg, country: Japan⁸⁵⁶

incidence: 21/74, conc. range: 0.3–9 µg/kg, Ø

incidence: 2/2, conc. range: 0.5–0.6 µg/kg, Ø

conc.: 6.4 μg/kg, country: Cyprus⁷⁴

conc.: 0.55 μg/kg, country: GDR¹⁷⁸

incidence: 3/4, conc. range: 0.1–0.3 μg/kg, Ø conc.: 0.2 μg/kg, country: Japan⁸⁵⁶ see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food

(infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

AFLATOXIN G₁

incidence: 21/74, conc. range: <0.4–0.9 µg/kg, \varnothing conc.: 0.6 µg/kg, country: Cyprus⁷⁴ incidence: 2/2, conc. range: 3.5–5.2 µg/kg, \varnothing conc.: 4.4 µg/kg, country: GDR¹⁷⁸ incidence: 3/6, conc. range: 0.1–0.4 µg/kg, country: Japan¹⁸⁴

incidence: $2/2^*$, conc. range: $0.6-1.2~\mu g/kg$, \varnothing conc.: $0.9~\mu g/kg$, country: Denmark¹⁹³, *imported

incidence: 2/4, conc. range: 0.3 μg/kg, Ø conc.: 0.3 µg/kg, country: Japan⁸⁵⁶ see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame

seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

Aflatoxin G₂

incidence: 1/74, conc.: 0.3 µg/kg, country: Cyprus⁷⁴

incidence: 2/2, conc. range: 1.3–1.7 µg/kg, Ø conc.: 1.5 µg/kg, country: GDR¹⁷⁸ incidence: 2/2*, conc. range: 0.2 µg/kg, Ø conc.: 0.2 µg/kg, country: Denmark¹⁹³, *imported

see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

Aflatoxin

incidence: ?/5, conc. range: ≤105 μg/kg, country: Ethopia⁷⁶ see also barley, beer, bran (rice), flour (maize), injera, jars, kocho, maize, maize roti, malt (barley), malt (maize), nuts (peanut), nuts (pistachio), oil (peanut), paste (pepper, red), rice, spices (pepper)

Aflatoxins (B_1, G_1)

incidence: 10/18, conc. range: 1-<5 µg/kg (1 sa), $5-<10 \mu g/kg$ (3 sa), $10-<50 \mu g/kg$ (4 sa), $50 - < 100 \mu g/kg (1 sa), 775 \mu g/kg (1 sa)$ country: UK23

see also beer, chestnut, nuts (peanut)

Aflatoxins (B_1, B_2, G_1, G_2) incidence: 98/2092, conc. range: 5-19.9 µg/kg (95 sa), >25 μg/kg (3 sa), country: Canada⁵⁹ incidence: 13/42*, conc. range: 1-3.9 µg/kg (8 sa), 4-10 µg/kg (4 sa), 21 µg/kg (1 sa), country: UK739, *retail sa incidence: 15/21, conc. range: 1.6-64 µg/kg, Ø conc.: 23 μg/kg, country: Botswana⁸¹³ see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (fig), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

AFLATOXINS (TOTAL)

country: UK834, *imported

incidence: 6/16* **, conc. range: 2-5 µg/kg (4 sa), 6-10 μg/kg (1 sa), 14 μg/kg (1 sa), country: UK60, *regular, **crunchy incidence: 7/16* **, conc. range: 2-5 µg/kg (6 sa), 8 μ g/kg (1 sa), country: UK⁶⁰, *regular, **smooth incidence: 24/38* **, conc. range: 2-5 µg/kg $(4 \text{ sa}), 6-10 \mu\text{g/kg} (5 \text{ sa}), 11-30 \mu\text{g/kg} (3 \text{ sa}),$ 31–100 μ g/kg (3 sa), \leq 345 μ g/kg (9 sa) country: UK60, *health food, **crunchy incidence: 13/21* **, conc. range: 2-5 μg/kg (1 sa), 6–10 μg/kg (3 sa), 11–30 μg/kg (4 sa), \leq 175 µg/kg (5 sa), country: UK⁶⁰, *health food, **smooth incidence: 12/29*, conc. range: LOQ-4 µg/kg (8 sa), $>4-10 \mu\text{g/kg}$ (3 sa), $11.2 \mu\text{g/kg}$ (1 sa), country: UK⁸³⁴, *imported incidence: 10/26*, conc. range: LOQ-4 μg/kg (10 sa, with a maximum of 2.7 µg/kg),

see also beans, butter, figs, maize, nut cereals, nuts (almond), nuts (brazil), nuts (cashew), nuts ("chico-felix"), nuts (hazelnut), nuts (peanut), nuts (pistachio), nuts (walnut), paste (fig), rice, sunflower seeds

Aflatoxins

incidence: 29/29, conc. range: >30-8600 μg/kg, country: Philippines³² incidence: 1857/2510, conc. range: 1-<20 μg/kg (1597 sa), 20–50 μg/kg (149 sa), 50–100 μg/kg (74 sa), >100 μg/kg (37 sa), Ø conc.: 13 µg/kg, country: USA56 incidence: 17/104, conc. range: ≤27 µg/kg, Ø conc.: 14 µg/kg, country: USA¹⁹⁷ incidence: 1/3*, conc.: 43 µg/kg, country: USA197, *imported incidence: 16/35, conc. range: 0.1-5 μg/kg (5 sa), 6-10 μg/kg (6 sa), 11-20 μg/kg (3 sa), 21-35 μg/kg (2 sa), country: Malaysia³⁹¹ see also beans, candy (peanut), candy (pistachio), cassava, figs, flour (maize), grain mixtures, grains, maize, maize dough, maize products, melon seeds, millet, nuts, nuts (almond), nuts (brazil), nuts (peanut), nuts (peanut mix), nuts (peanut products), nuts (pecan), nuts (pistachio), nuts (walnut), nuts and seeds, paste (peanut), paste (pipian), peas, rice, sauce (leaf), snacks, sorghum, spices, spices (chilli), spices (cumin), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper), spices (tandoori), teff, tubers, wheat

OCHRATOXIN A

incidence: 3/29*, conc. range: 0.4–5.4 μg/kg, Ø conc.: 2.2 μg/kg, country: UK⁸³⁴, *imported

see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes

(corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, ligourice, liquerice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Nuts (peanut mix) may contain the following mycotoxins:

Aflatoxins

incidence: 1/1, conc.: 302 μg/kg, country:

see also beans, candy (peanut), candy (pistachio), cassava, figs, flour (maize), grain mixtures, grains, maize, maize dough, maize

293 Nuts (peanut products)

products, melon seeds, millet, nuts, nuts (almond), nuts (brazil), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pistachio), nuts (walnut), nuts and seeds, paste (peanut), paste (pipian), peas, rice, sauce (leaf), snacks, sorghum, spices, spices (chilli), spices (cumin), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper), spices (tandoori), teff, tubers, wheat

Nuts (peanut products) may contain the following mycotoxins:

Aflatoxin B_1

incidence: 13/20, conc. range: 15–138 µg/kg, \varnothing conc.: 64.9 µg/kg, country: Germany¹⁷⁸ incidence: 14/22*, conc. range: 1–244 µg/kg, \varnothing conc.: 52 µg/kg, country: Japan³⁰⁰, *from Malaysia, Philippines

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts

(peanut butter), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxin B₂

incidence: 2/20, conc. range: 3–24 µg/kg, Ø conc.: 13.5 µg/kg, country: Germany¹⁷⁸ incidence: 12/22*, conc. range: 3-125 µg/kg, Ø conc.: 22 μg/kg, country: Japan³⁰⁰, *from Malaysia, Philippines see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian

Nuts (peanut products) 294

cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Aflatoxin G₁

incidence: 8/20, conc. range: 9-44 µg/kg, Ø conc.: 28 µg/kg, country: Germany 178 incidence: 2/22*, conc. range: 6-68 µg/kg, Ø conc.: 37 μg/kg, country: Japan³⁰⁰, *from Malaysia, Philippines see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

Aflatoxin G₂

incidence: 2/20, conc. range: 4–18 μg/kg, Ø conc.: 11 μg/kg, country: Germany¹⁷⁸ incidence: 1/22*, conc.: 33 μg/kg, country: Japan³⁰⁰, *from Malaysia, Philippines see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean),

popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

Aflatoxins (B_1, B_2, G_1, G_2) incidence: 30/45, conc. range: ≤1789 µg/kg, Ø conc.: 384 μg/kg, country: Brazil²⁷⁷ see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (fig), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

Aflatoxins

incidence: 11/32, conc. range: >30-<220 μg/kg, country: Philippines³² incidence: 1/6, conc.: 2 µg/kg, country: USA¹⁹⁷ incidence: 49/100, conc. range: 0.1-5 µg/kg (14 sa), 6-10 µg/kg (10 sa), 11-20 µg/kg (3 sa), $21-35 \mu g/kg (17 sa)$, $>50 \mu g/kg (5 sa)$, country: Malaysia³⁹¹ see also beans, candy (peanut), candy (pistachio), cassava, figs, flour (maize), grain mixtures, grains, maize, maize dough, maize products, melon seeds, millet, nuts, nuts (almond), nuts (brazil), nuts (peanut), nuts (peanut butter), nuts (peanut mix), nuts (pecan), nuts (pistachio), nuts (walnut), nuts and seeds, paste (peanut), paste (pipian), peas, rice, sauce (leaf), snacks, sorghum,

295 Nuts (pecan)

spices, spices (chilli), spices (cumin), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper), spices (tandoori), teff, tubers, wheat

Nuts (pecan) may contain the following mycotoxins:

AFLATOXIN B₁ incidence: 3/48, conc. range: tr–25 μg/kg,

country: USA46 see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum,

soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli) powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN G₁ incidence: 3/48, conc. range: tr, country: USA⁴⁶

see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

AFLATOXINS (B₁, B₂, G₁, G₂) incidence: 1/55, conc. range: 5–9.9 μg/kg, country: Canada⁵⁹ see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts

Nuts (pecan) 296

(pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (fig), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (corrander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

AFLATOXINS

incidence: 1/229 , conc.: 40 μg/kg, country: USA¹⁹⁶

incidence: 3/17, conc. range: ≤334 μg/kg, Ø conc.: 135 μg/kg, country: USA¹⁹⁷ see also beans, candy (peanut), candy (pistachio), cassava, figs, flour (maize), grain mixtures, grains, maize, maize dough, maize products, melon seeds, millet, nuts, nuts (almond), nuts (brazil), nuts (peanut), nuts (peanut butter), nuts (peanut mix), nuts (peanut products), nuts (pistachio), nuts (walnut), nuts and seeds, paste (peanut), paste (pipian), peas, rice, sauce (leaf), snacks, sorghum, spices, spices (chilli), spices (cumin), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper), spices (tandoori), teff, tubers, wheat

STERIGMATOCYSTIN

incidence: 1/40*, conc.: 20,000 μg/kg, country: USA⁷⁵⁷, *in-shell see also barley, cassava, cheese, coffee, maize, nuts (almond), nuts (pistachio), oil seed rape, rice, spices, spices (fennel), spices (pepper), wheat

Nuts (pine) may contain the following mycotoxins:

Aflatoxin B_1

incidence: 26/50, conc. range: 25–2080 μg/kg, country: Tunisia²¹

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals,

cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxin G_1

incidence: 26/50, conc. range: 56–4570 μ g/kg, country: Tunisia²¹

see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

Aflatoxins (B_1, B_2, G_1, G_2) incidence: 26/50, conc. range: 95-7550 µg/kg, country: Tunisia²¹ see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (fig), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

Nuts (pistachio) may contain the following mycotoxins:

Aflatoxin B_1 incidence: 1/19, conc.: 22 µg/kg, country: Tunisia²⁰ incidence: 53/856, conc. range: 1.4-206 μ g/kg, Ø conc.: 54.9 μ g/kg, country: Cyprus⁷⁴ incidence: 5/165, conc. range: 11.5–1382 μg/kg, Ø conc.: 323 μg/kg, country: Japan⁹⁹ incidence: 17/29*, conc. range: 2.3-165 µg/kg, Ø conc.: 56.4 μg/kg, country: The Netherlands¹⁰¹, *imported incidence: 1/5* **, conc.: 13.2 µg/kg, country: UK²²⁴, *imported, **roasted incidence: 2/5* **, conc. range: 105-227.2 μ g/kg, Ø conc.: 166.1 μ g/kg, country: UK²²⁴, *imported, **raw incidence: 1/1*, conc.: 4.6 µg/kg, country: Japan³⁴⁶, *imported incidence: 11/23*, conc. range: 0.05-0.1 μg/kg (6 sa), 0.11-1 μg/kg (3 sa), 1.1-5 μg/kg (1 sa), 11–40 μ g/kg (1 sa), \varnothing conc.: 3.6 μ g/kg, country: France³⁹⁷, *imported incidence: 2/6, conc. range: 15–94 µg/kg, Ø conc.: 54.5 µg/kg, country: India⁸⁰² incidence: 9/23*, conc. range: LOQ-2 μg/kg (5 sa), $>2-5 \mu\text{g/kg}$ (2 sa), $>5 \mu\text{g/kg}$ (2 sa)with a maximum of 41.3 μg/kg), country: UK834, *imported incidence: 3/29*, conc. range: >5 μg/kg (3 sa, with a maximum of 93.3 µg/kg), country: UK834, *imported see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver

(hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂

µg/kg, Ø conc.: 1.2 µg/kg, country: Cyprus⁷⁴ incidence: 5/165, conc. range: 0.5–260 µg/kg, Ø conc.: 58 µg/kg, country: Japan⁹⁹ incidence: 1/5* **, conc.: 1.7 µg/kg, country: UK²²⁴, *imported, **roasted incidence: 2/5* **, conc. range: 10–31.7 µg/kg, Ø conc.: 20.9 µg/kg, country: UK²²⁴, *imported, **raw incidence: 1/6, conc.: 75 µg/kg, country: India⁸⁰² see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram),

incidence: 53/856, conc. range: <0.3-2.3

flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

AFLATOXIN G₁

incidence: 5/165, conc. range: \leq 306 µg/kg, \varnothing conc.: 61.3 µg/kg, country: Japan⁹⁹ incidence: 1/6, conc.: 12 µg/kg, country: India⁸⁰²

see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg),

spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

Aflatoxin G₂

incidence: 5/165, conc. range: \leq 48.3 µg/kg, \varnothing conc.: 9.7 µg/kg, country: Japan⁹⁹ incidence: 1/6, conc.: 8 µg/kg, country: India⁸⁰²

see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (walnut), oil (olive), paste (soybean), popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

Aflatoxin

incidence: 46/46*, conc. range: 6–97 µg/kg, Ø conc.: 24 µg/kg, country: USA⁵², *from Iran see also barley, beer, bran (rice), flour (maize), injera, jars, kocho, maize, maize roti, malt (barley), malt (maize), nuts (peanut), nuts (peanut butter), oil (peanut), paste (pepper, red), rice, spices (pepper)

AFLATOXINS (B₁, B₂, G₁, G₂) incidence: $1/4^*$, conc.: ≈ 3.5 , country: Poland¹¹⁰, * imported incidence: $8/24^*$ **, conc. range: 1-3.9 µg/kg (1 sa), 4-10 µg/kg (1 sa), 10.1-20 µg/kg (1 sa), 20.1-50 µg/kg (2 sa), >50 µg/kg (3 sa, with a maximum of 175 µg/kg), country: UK⁷³⁹, *port sa, **imported see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts

(peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (walnut), oil, oil seeds, paste (fig), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

AFLATOXINS (TOTAL)

incidence: $5/23^*$, conc. range: LOQ–4 µg/kg (2 sa), >4–10 µg/kg (1 sa), >10 µg/kg (2 sa, with a maximum of 47.5 µg/kg), country: UK⁸³⁴, *imported incidence: $3/29^*$, conc. range: >4–10 µg/kg (1 sa), >10 µg/kg (2 sa, with a maximum of 106.9 µg/kg), country: UK⁸³⁴, *imported see also beans, butter, figs, maize, nut cereals, nuts (almond), nuts (brazil), nuts (cashew), nuts ("chico–felix"), nuts (hazelnut), nuts

(peanut), nuts (peanut butter), nuts (walnut), paste (fig), rice, sunflower seeds

Aflatoxins

incidence: 13/47* **, conc. range: 0.53-75 μg/kg, country: Qatar¹, *with shell, **most sa from Iran, Syria, Turkey, USA incidence: 52/100* **, conc. range: 7.3-289 μg/kg, country: Qatar¹, *without shell, **most sa from Iran, Syria, Turkey, USA incidence: 26/46* **, conc. range: 0.1–≤55.3 μg/kg country: Qatar², *with shell, **imported incidence: 156/22* **, conc. range: 0.1-<117 μg/kg country: Qatar², *without shell, **imported incidence: 17*/175, conc. range: 5–9.9 µg/kg (4 sa), 10–14.9 μg/kg (3 sa), 15–19.9 μg/kg (1 sa), 20-24.9 μg/kg (2 sa), >25 μg/kg (7 sa), country: Canada⁵⁹, *AFB₁, AFB₂, AFG₁, AFG₂ incidence: 7/22, conc. range: \leq 252 µg/kg, \varnothing conc.: 58 µg/kg, country: USA¹⁹⁷ incidence: 10/21*, conc. range: ≤133 µg/kg, Ø conc.: 41 μg/kg, country: USA¹⁹⁷, *shelled

see also beans, candy (peanut), candy (pistachio), cassava, figs, flour (maize), grain mixtures, grains, maize, maize dough, maize products, melon seeds, millet, nuts, nuts (almond), nuts (brazil), nuts (peanut), nuts (peanut butter), nuts (peanut mix), nuts (peanut products), nuts (pecan), nuts (walnut), nuts and seeds, paste (peanut), paste (pipian), peas, rice, sauce (leaf), snacks, sorghum, spices, spices (chilli), spices (cumin), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper), spices (tandoori), teff, tubers, wheat

OCHRATOXIN A

incidence: 2/23*, conc. range: 0.9–46.5 µg/kg, \varnothing conc.: 23.7 µg/kg, country: UK⁸³⁴, *imported

see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut),

nuts (peanut), nuts (peanut butter), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cavenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

STERIGMATOCYSTIN

incidence: 2/6, conc. range: 70– $100~\mu g/kg$, \varnothing conc.: 85 $\mu g/kg$, country: India⁸⁰² see also barley, cassava, cheese, coffee, maize, nuts (almond), nuts (pecan), oil seed rape, rice, spices, spices (fennel), spices (pepper), wheat

Nuts (tiger) may contain the following mycotoxins:

Aflatoxin B_1

incidence: 27/77, conc. range: 10–120 μ g/kg, country: Nigeria²⁹⁵

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam

(bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Nuts (walnut) may contain the following mycotoxins:

AFLATOXIN B₁ Incidence 2/12*, conc. range: \leq 5 μg/kg, country: UK²⁴, *imported Incidence 3*/12, conc. range: 5–500,000 μg/kg, country: Germany⁶⁷, *moldy incidence: 6/560, conc. range: <0.4–0.2 μg/kg?, \varnothing conc.: 0.3 μg/kg, country: Cyprus⁷⁴ incidence: 1/14* conc.: 8 μg/kg, country: Norway¹⁹⁸, *imported

incidence: 3/9, conc. range: 15-110 µg/kg, country: India802 see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika),

spices (pepper), spices (pepper, cayenne),

spices (saffron), spices (turmeric), sugar,

sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂ incidence: 6/560, conc. range: <0.3 µg/kg, country: Cyprus⁷⁴ incidence: 1/14* conc.: tr, country: Norway¹⁹⁸, *imported incidence: 2/9, conc. range: 12–85 µg/kg, Ø conc.: 48.5 µg/kg, country: India⁸⁰² see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

AFLATOXIN G_1 incidence: 6/560, conc. range: <0.4 µg/kg, country: Cyprus⁷⁴ incidence: 1/14* conc.: 4 µg/kg, country: Norway¹⁹⁸, *imported incidence: 2/9, conc. range: 10–75 µg/kg, \varnothing conc.: 42.55 µg/kg, country: India⁸⁰² see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize),

flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

AFLATOXIN G₂

incidence: 1/14* conc.: tr, country: Norway¹⁹⁸, *imported incidence: 1/9, conc.: 65 µg/kg, country: India⁸⁰² see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), oil (olive), paste (soybean), popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

AFLATOXINS (B_1 , B_2 , G_1 , G_2) incidence: 15/20, conc. range: 15–25 µg/kg, country: Egypt⁴⁹⁰ see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour

(maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), oil, oil seeds, paste (fig), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

AFLATOXINS (TOTAL) incidence: 1/2*, conc.: ≈5.4, country: Poland¹¹⁰, * imported? see also beans, butter, figs, maize, nut cereals, nuts (almond), nuts (brazil), nuts (cashew), nuts ("chico–felix"), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), paste (fig), rice, sunflower seeds

Aflatoxins

incidence: 10*/156, conc. range: 5-9.9 µg/kg (7 sa), 10-14.9 μg/kg (1 sa), 20-24.9 μg/kg (1 samples), >25 μg/kg (1 sa), country: Canada⁵⁹, *AFB₁, AFB₂, AFG₁, AFG₂ incidence: 2/27, conc. range: 29–41 µg/kg, Ø conc.: 35 µg/kg, country: USA¹⁹⁷ incidence: 2/4, conc. range: ≤8 μg/kg, Ø conc.: 4 µg/kg, country: USA197 see also beans, candy (peanut), candy (pistachio), cassava, figs, flour (maize), grain mixtures, grains, maize, maize dough, maize products, melon seeds, millet, nuts, nuts (almond), nuts (brazil), nuts (peanut), nuts (peanut butter), nuts (peanut mix), nuts (peanut products), nuts (pecan), nuts (pistachio), nuts and seeds, paste (peanut), paste (pipian), peas, rice, sauce (leaf), snacks, sorghum, spices, spices (chilli), spices (cumin), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper), spices (tandoori), teff, tubers, wheat

OCHRATOXIN A

incidence: 7/20, conc. range: 0.04-0.23 µg/kg, Ø conc.: 0.11 μg/kg, country: Morocco⁸⁵⁹ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, ligourice, ligourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic

pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Rubratoxin

incidence: 1/9, conc.: 210 $\mu g/kg$, country: India⁸⁰²

see also nuts (almond), spices (turmeric), wheat

ZEARALENONE

incidence: 1/20, conc.: 125 μg/kg, country: Egypt⁴⁹⁰

see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Nuts and seeds may contain the following mycotoxins:

AFLATOXIN B₁

incidence: 14/17, conc. range: 4–74 μg/kg, Ø conc.: 24 μg/kg, country: Egypt¹⁶² see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips

(yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxins

incidence: 1/23, conc.: 64 μg/kg, country: Philippine³²

305 Oat products

see also beans, candy (peanut), candy (pistachio), cassava, figs, flour (maize), grain mixtures, grains, maize, maize dough, maize products, melon seeds, millet, nuts, nuts (almond), nuts (brazil), nuts (peanut), nuts (peanut butter), nuts (peanut mix), nuts (peanut products), nuts (pecan), nuts (pistachio), nuts (walnut), paste (peanut), paste (pipian), peas, rice, sauce (leaf), snacks, sorghum, spices, spices (chilli), spices (cumin), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper), spices (tandoori), teff, tubers, wheat

Oat bran

see Bran (oat)

Oat flakes

see Flakes (oat)

Oat groats

see Groats (oat)

Oat gruel

see Gruel (oat)

Oat products may contain the following mycotoxins:

Deoxynivalenol

incidence: 87/335*, conc. range: 10-404 μg/kg, country: UK⁸⁴¹, *products such as porridge oats, biscuits, cereals and baby food see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

3-ACETYLDEOXYNIVALENOL

incidence: 1/335*, conc.: 38 µg/kg, country: UK⁸⁴¹, *products such as porridge oats, biscuits, cereals and baby food see also barley, bread, cereals, cereals (breakfast), flakes (oat), flour (maize), flour (wheat), food, food (baby), grits (maize), maize, oats, rice, rye, snacks, wheat

15-ACETYLDEOXYNIVALENOL

incidence: 4/335*, conc. range: 16–41 µg/kg, country: UK⁸⁴¹, *products such as porridge oats, biscuits, cereals and baby food see also barley, bran (oat), bran (wheat), cereals (breakfast), flour (maize), flour (wheat), food, grits (maize), maize, noodles, oats, snacks, wheat

Fusarenon X

incidence: 2/335*, conc. range: 17–18 μg/kg, Ø conc.: 17.5 μg/kg, country: UK⁸⁴¹, *products such as porridge oats, biscuits, cereals and baby food see also cereals (breakfast), flour (maize), food, maize, spices (curry), spices (garlic)

HT-2 Toxin

incidence: 103/335*, conc. range: 10–72 µg/kg, country: UK⁸⁴¹, *products such as porridge oats, biscuits, cereals and baby food see also barley, bran (oat), bran (wheat), bread, cereal (baby), cereals, cereals (breakfast), flakes (oat), flour (maize), flour (wheat), food, food (baby), germ (wheat), grits (maize), groats (oat), maize, noodles, nuts (hazelnut), oats, products, pumpkin seeds, rye, spices (chilli powder), spices (curry), sunflower seeds, wheat

Neosolaniol

incidence: 1/335*, conc.: 17 μg/kg, country: UK⁸⁴¹, *products such as porridge oats, biscuits, cereals and baby food see also cereals (breakfast), maize, sorghum, spices (curry), spices (ginger), wheat

Nivalenol

incidence: 30/335*, conc. range: 10–33 μg/kg, country: UK⁸⁴¹, *products such as porridge oats, biscuits, cereals and baby food

Oat products 306

see also barley, beer, biscuits, bran (wheat), bread, cake, cereal (baby), cereals,cereals (breakfast), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, germ (wheat), grits (maize), grits (wheat), Job's-tears, maize, malt (barley), meal (millet), millet, noodles, oats, rice, rye, snacks, sorghum, soybeans, spices (chilli sauce), spices (curry), spices (curry paste), spices (curry powder), spices (garlic), spices (ginger), spices (tandoori), wheat

T-2 Toxin

incidence: 59/335*, conc. range: 11–61 µg/kg, country: UK⁸⁴¹, *products such as porridge oats, biscuits, cereals and baby food see also barley, beans, beer, bran (oat), bran (wheat), bread, cereals, cereals (breakfast), flakes (oat), flour, flour (maize), flour (wheat), food, grits (maize), maize, nuts (hazelnut), nuts (peanut), oats, rice, rye, sorghum, spices (curry), spices (ginger), spices (tandoori), sunflower seeds, wheat

T-2 Triol

incidence: 2/335*, conc. range: 18–23 µg/kg, country: UK⁸⁴¹, *products such as porridge oats, biscuits, cereals and baby food see also maize, wheat

Oats may contain the following mycotoxins:

Aflatoxin B₁

incidence: 3/30, conc. range: 1–10 μ g/kg (2 sa), >10–20 μ g/kg (1 sa), country: Cuba⁴⁷ incidence: 2/3*, conc. range: 240–2600 μ g/kg, \varnothing conc.: 1420 μ g/kg, country: Sweden¹⁴⁰, *ncac

incidence: 3/31*, conc. range: ≤2.5 µg/kg, country: USSR¹9¹, *imported see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat),

food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Beauvericin

incidence: 1/1*, conc.: 18 μg/kg, country: Finland⁴⁵⁹, *ncac see also barley, maize, wheat

Deoxynivalenol

incidence: 7/7, conc. range: 5–100 μg/kg (6 sa), 500–1000 μg/kg (1 sa), country: Finland²¹⁹

incidence: 2/5, conc. range: 1300-2600 µg/kg, Ø conc.: 1950 μg/kg, country: USA⁴²⁴ incidence: 21/21, conc. range: 7–861 µg/kg, Ø conc.: 168 µg/kg, country. Finland⁴⁵⁵ incidence: 870/982*, conc. range: 30-62,050 μg/kg, country: Norway⁴⁶⁴, *ncac incidence: 9/9*, conc. range: <30-4200 µg/kg, country: Norway⁴⁶⁵, *ncac incidence: 102/178*, conc. range: >20-849 µg/kg, Ø conc.: 104 μg/kg, country: Norway⁴⁶⁶, *for food and feed incidence: 6/6*, conc. range: 28-11,000 μg/kg, Ø conc.: 2260 μg/kg, country: Finland⁴⁶⁷, *ncac incidence: 3/3* **, conc. range: 4-141 µg/kg, \emptyset conc.: 72.3 µg/kg, country: Finland⁴⁶⁷, *ncac, **/barley mixture incidence: 181/272*, conc. range: 3–1480 μg/kg, Ø conc.: 167.5 μg/kg, country: Germany⁵⁰¹, *ncac incidence: 2/3, conc. range: 18-25 µg/kg, Ø conc.: 22 μg/kg, country: Germany⁵²⁰ incidence: 5/23*, Ø conc.: 115 μg/kg, country: Japan⁵³⁰, *ncac incidence: 3/3* **, conc. range: 56-147 µg/kg, Ø conc.: 110 μg/kg, country: Japan⁵³⁶, *from The Netherlands, **ncac incidence: 4/10* **, Ø conc.: 136 μg/kg, country: Japan⁵³⁸, *from Germany, **ncac incidence: 4/4, conc. range: 5-50 µg/kg (3 sa), 50–100 μ g/kg (1 sa), country: Finland⁷⁶⁵ see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

3–ACETYLDEOXYNIVALENOL incidence: 2/7, conc. range: 5–100 μg/kg (2 sa), country: Finland²¹⁹ incidence: 12/21, conc. range: 6–219 μg/kg, Ø conc.: 67 μg/kg, country: Finland⁴⁵⁵ incidence: 1/6*, conc.: 700 μg/kg, country: Finland⁴⁶⁷, *ncac incidence: 24/272*, conc. range: 3–115 μg/kg, Ø conc.: 25.1 μg/kg, country: Germany⁵⁰¹, *ncac see also barley, bread, cereals, cereals (breakfast), flakes (oat), flour (maize), flour (wheat), food, food (baby), grits (maize), maize, oat products, rice, rye, snacks, wheat

15-Acetyldeoxynivalenol

incidence: 7/272*, conc. range: 2–25 μg/kg, Ø conc.: 13.1 μg/kg, country: Germany⁵⁰¹, *ncac see also barley, bran (oat), bran (wheat), cereals (breakfast), flour (maize), flour (wheat), food, grits (maize), maize, noodles, oat products, snacks, wheat

Enniatin A_1 incidence: $1/1^*$, conc.: tr, country: Finland⁴⁵⁹, *ncac see also barley, rye, wheat

Enniatin B incidence: 1/1*, conc.: 23 μg/kg, country: Finland⁴⁵⁹, *ncac see also barley, rye, wheat

Enniatin B₁ incidence: 1/1*, conc.: tr, country: Finland⁴⁵⁹, *ncac see also barley, rye, wheat

HT-2 Toxin

incidence: 4/7, conc. range: 10–100 μg/kg (4 sa), country: Finland²¹⁹ incidence: 2/21, conc. range: 33–44 μg/kg, Ø conc.: 39 μg/kg, country: Finland⁴⁵⁵ incidence: 125/178*, conc. range: >20–880 μg/kg, Ø conc.: 115 μg/kg, country: Norway⁴⁶⁶, *for food and feed incidence: 20/272*, conc. range: 10–2018 μg/kg, Ø conc.: 250.5 μg/kg, country: Germany⁵⁰¹, *ncac

incidence: 24/99*, conc. range: 10–47 µg/kg, Ø conc.: 21 µg/kg, country: Poland⁵¹⁰, *ncac incidence: 3/3, conc. range: 5–23 µg/kg, Ø conc.: 13 µg/kg, country: Germany⁵²⁰ see also barley, bran (oat), bran (wheat), bread, cereal (baby), cereals, cereals (breakfast), flakes (oat), flour (maize), flour (wheat), food, food (baby), germ (wheat), grits (maize), groats (oat), maize, noodles, nuts (hazelnut), oat products, products, pumpkin seeds, rye, spices (chilli powder), spices (curry), sunflower seeds, wheat

Moniliformin

incidence: 1/1*, conc.: 84 μg/kg, country: Finland⁴⁵⁹, *ncac incidence: 3/3* ** ***, conc. range: 15,700–38,300 μg/kg, Ø conc.: 24,060 μg/kg, country: Poland⁵²⁴, *Fdk, **from Poland, ***ncac

incidence: 23/73*, conc. range: tr–210 μg/kg, country: Norway⁵⁵⁰, *ncac see also barley, corn on the cob, flakes (corn), flour (maize), foodstuff, grits (maize),maize, maize–based thickeners, meal (maize), popcorn, rye, snacks, triticale, wheat

Nivalenol

incidence: 2/7, conc. range: 15-100 µg/kg (2 sa), country: Finland²¹⁹ incidence: 3/21, conc. range: 48-83 µg/kg, Ø conc.: 70 μg/kg, country: Finland⁴⁵⁵ incidence: 18/178*, conc. range: >20-211 μg/kg, Ø conc.: 56 μg/kg, country: Norway⁴⁶⁶, *for food and feed incidence: 1/6*, conc.: 28 µg/kg, country: Finland⁴⁶⁷, *ncac incidence: 116/272*, conc. range: 2-628 μg/kg, Ø conc.: 79.7 μg/kg, country: Germany⁵⁰¹, *ncac incidence: 6/23*, Ø conc.: 438 µg/kg, country: Japan⁵³⁰, *ncac incidence: 3/3* **, conc. range: 17-39 µg/kg, Ø conc.: 27 μg/kg, country: Japan⁵³⁶, *from The Netherlands, **ncac incidence: 1/10* **, conc.: 1464 μg/kg, country: Japan⁵³⁸, *from Germany, **ncac incidence: 4/7* **, Ø conc.: 16 μg/kg, country: Japan⁵³⁸, *from Nepal, **ncac

see also barley, beer, biscuits, bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, germ (wheat), grits (maize), grits (wheat), Job's-tears, maize, malt (barley), meal (millet), millet, noodles, oat products, rice, rye, snacks, sorghum, soybeans, spices (chilli sauce), spices (curry), spices (curry paste), spices (curry powder), spices (garlic), spices (ginger), spices (tandoori), wheat

OCHRATOXIN A

incidence: 12/93*, conc. range: 0.1–58.8 μ g/kg, \varnothing conc.: 9.5 μ g/kg, country: Germany⁵⁷⁷, *ncac

incidence: 21/50*, conc. range: 0.05–4.9 μg/kg (20 sa), 5.6 μg/kg (1 sa), Ø conc.: 0.5 μg/kg**, country: Denmark⁶²⁵, *cg, **arithmetic mean incidence: 6/17*, conc. range: 0.05–4.9 μg/kg (6 sa, with a maximum of 4.2 μg/kg), Ø conc.: 0.3 μg/kg**, country: Denmark⁶²⁵, *eg, **arithmetic mean incidence: 13/25* **, conc. range: 0.05–4.9 μg/kg (13 sa, with a maximum of 4.6 μg/kg)

µg/kg (13 sa, with a maximum of 4.6 µg/kg), Ø conc.: 0.5 µg/kg***, country: Denmark⁶²⁵, *imported, **cg, ***arithmetic mean incidence: 16/56*, conc. range: 1–5 µg/kg (16 sa, with a maximum of 3.8 µg/kg), country: UK⁶³⁶, *and from different countries?

incidence: 2/34*, conc. range: 1.4–56.6 µg/kg, \varnothing conc.: 29 µg/kg, country: Italy⁶⁶⁵, *ncac incidence: 24/30, conc. range: \le 0.14 µg/kg, \varnothing conc.: 0.058 µg/kg, country: Germany⁶⁹⁰ incidence: 1/46*, conc.: 80 µg/kg, country: UK⁷⁶¹, *ncac

see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat),

flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

DIACETOXYSCIRPENOL

incidence: 12/99*, conc. range: 10–118 μg/kg, Ø conc.: 23 μg/kg, country: Poland⁵¹⁰, *ncac see also beans, beer, bran (wheat), cereals, maize, nuts (peanut), products, rice, soybeans, spices (chilli powder), spices (curry), wheat T-2 Toxin incidence: 1/7, conc.: 23 µg/kg, country: Finland²¹⁹ incidence: 2/21, conc. range: 45-73 µg/kg, Ø conc.: 59 μg/kg, country: Finland⁴⁵⁵ incidence: 53/178*, conc. range: >20-380 μg/kg, Ø conc.: 60 μg/kg, country: Norway⁴⁶⁶, *for food and feed incidence: 1/6*, conc.: 18 μg/kg, country: Finland⁴⁶⁷, *ncac incidence: 107/272*, conc. range: 2-1686 $\mu g/kg$, \varnothing conc.: 74.1 $\mu g/kg$, country: Germany⁵⁰¹, *ncac incidence: 15/99*, conc. range: 10-703 μg/kg, Ø conc.: 60 μg/kg, country: Poland⁵¹⁰, *ncac incidence: 2/3, conc. range: 6-11 µg/kg, Ø conc.: 8.5 μg/kg, country: Germany⁵²⁰ see also barley, beans, beer, bran (oat), bran (wheat), bread, cereals, cereals (breakfast), flakes (oat), flour, flour (maize), flour (wheat), food, grits (maize), maize, nuts (hazelnut), nuts (peanut), oat products, rice, rye, sorghum, spices (curry), spices (ginger), spices (tandoori), sunflower seeds, wheat

ZEARALENONE

incidence: 1/7, conc.: 2-8 μg/kg (1 sa), country: Finland²¹⁹ incidence: 3/5, conc. range: 9-22 µg/kg, Ø conc.: 16 μg/kg, country: USA⁴²⁴ incidence: 3/21, conc. range: 30-86 µg/kg, \varnothing conc.: 63 µg/kg, country: Finland⁴⁵⁵ incidence: 10/29*, conc. range: 10-90 μg/kg, country: New Zealand⁴⁶⁸, *ncac incidence: 70/272*, conc. range: 1-223 µg/kg, Ø conc.: 15.7 μg/kg, country: Germany⁵⁰¹, incidence: 10/23*, Ø conc.: 22 µg/kg, country: Japan⁵³⁰, *ncac incidence: 3/3* **, conc. range: 16–29 μg/kg, Ø conc.: 22 μg/kg, country: Japan⁵³⁶, *from The Netherlands, **ncac incidence: 4/10* **, Ø conc.: 47 μg/kg, country: Japan⁵³⁸, *from Germany, **ncac incidence: 1/5* **, conc.: 2 μg/kg, country: Japan⁵³⁸, *from Italy, **ncac incidence: 5/7* **, Ø conc.: 6 μg/kg, country: Japan⁵³⁸, *from Nepal, **ncac

see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Ogbono may contain the following mycotoxins:

Aflatoxin B

incidence: 1/1, conc.: 168 μg/kg, country: Nigeria⁴

see also emu aran, meal (egusi), ogili–ugba, ogoro

Ogili–ugba may contain the following mycotoxins:

Aflatoxin B

incidence: 1/1, conc.: 211 µg/kg, country: Nigeria⁴

see also emu aran, meal (egusi), ogbono, ogoro

Ogoro may contain the following mycotoxins:

Aflatoxin B

incidence: 2/2, conc. range: 116–118 µg/kg, \varnothing conc.: 117 µg/kg, country: Nigeria⁴ see also emu aran, meal (egusi), ogbono, ogili–ugba

0il may contain the following mycotoxins:

Aflatoxins (B_1, B_2, G_1, G_2) incidence: 1/4*, conc.: 0.1 µg/kg, country: UK⁷³², *chilli, almond see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil seeds, paste (fig), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

ZEARALENONE

incidence: 1/4*, conc.: 5.4 μg/kg, country: UK⁷³², *chilli, almond see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

311 Oil (mustard)

Oil (coconut) may contain the following mycotoxins:

Aflatoxin B_1 incidence: 7/10*, conc. range: <50 μg/l (1 sa), 50-250 μg/l (3 sa), 250-1000 μg/l (1 sa), >1000 µg/l (2 sa), country: Ceylon⁹, *crude see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin),

spices (curry), spices (fennel), spices

(fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Oil (mustard) may contain the following mycotoxins:

Aflatoxin B_1 incidence: 33/100, conc. range: 55-87 µg/l, country: India154 see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (olive), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter /

Oil (mustard) 312

vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Oil (olive) may contain the following mycotoxins:

Aflatoxin B_1

incidence: 36/50, conc. range: 0.003-0.046 μg/l, country: Greece⁴⁰

incidence: 14/16*, conc. range: 1–7.5 µg/l, Ø conc.: 3.6 µg/l, country: France¹⁸⁷, *from

Greece

incidence: 3/30* **, conc. range: 0.54-2.4 μg/kg, Ø conc.: 1.3 μg/kg, country: Italy⁸⁶², *and from Morocco, **virgin incidence: 9/50*, conc. range: tr-0.06 µg/l, country: Greece864, *virgin see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal

(cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (palm), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂

incidence: 10/16*, conc. range: 1–5.5 μg/l, Ø conc.: 1.8 µg/l, country: France¹⁸⁷, *from Greece

see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut

313 Oil (olive)

butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli) powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Aflatoxin G₁

incidence: $5/16^*$, conc. range: $1-2.5 \mu g/l$, \varnothing conc.: $1.6 \mu g/l$, country: France¹⁸⁷, *from Greece

see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

Aflatoxin G_2

incidence: 5/16*, conc. range: 1–5 μg/l, Ø conc.: 2.2 μg/l, country: France¹⁸⁷, *from Greece see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), paste (soybean), popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

OCHRATOXIN A

incidence: 24/30* **, conc. range: 0.1-17 µg/kg, Ø conc.: 2.09 µg/kg, country: Italy⁸⁶², *and from Morocco, **virgin incidence: 44/50*, conc. range: DL-0.1 µg/l (9 sa), 0.1–0.2 μ g/l (15 sa), 0.2–0.5 μ g/l (10 sa), $>0.5 \mu g/l$ (10 sa, with a maximum of 1.03 μg/l), country: Greece⁸⁶⁴, *virgin see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liquerice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize),

Oil (olive) 314

meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Oil (palm) may contain the following mycotoxins:

Aflatoxin B₁

incidence: ?/8*, conc. range: 324-347 µg/l, country: Nigeria¹⁷⁷, *unrefined see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (peanut), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Oil (peanut) may contain the following mycotoxins:

AFLATOXIN B₁

incidence: 5/16, conc. range: 8–16 μg/l,

country: Malaya³⁷

incidence: 4/6, conc. range: 0.7 μ g/l, country: Japan¹⁸⁴

incidence: 8/17, conc. range: 10–70 μg/l, Ø conc.: 31.3 μg/l, country: Taiwan¹⁹⁰ incidence: 20/30*, conc. range: 4.43–2660 μg/l, country: India⁶⁶⁷, *crude see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa 315 Oil (peanut)

hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil seed rape, olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B_2 incidence: 4/6, conc. range: 0.1 µg/l, country: Japan¹⁸⁴

see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cavenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Aflatoxin G₁ incidence: 5/16, conc. range: \approx 8–16 µg/l, country: Malaya37 incidence: 4/6, conc. range: 0.1 µg/l, country: Japan¹⁸⁴ see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), Oil (peanut) 316

spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

Aflatoxin

incidence: 543/1209, conc. range: <100 μ g/l (232 sa), \leq 5000 μ g/l (311 sa), country: India⁶³

incidence: 5/8*, conc. range: ≤310 μg/l, Ø conc.: 246 μg/l, country: USA¹⁹⁷, *crude see also barley, beer, bran (rice), flour (maize), injera, jars, kocho, maize, maize roti, malt (barley), malt (maize), nuts (peanut), nuts (peanut butter,nuts (pistachio), paste (pepper, red), rice, spices (pepper)

Oil (sesame) may contain the following mycotoxins:

OCHRATOXIN A

incidence: 1/3, conc.: 0.4 µg/l, country: UK⁷³² see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver

(duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Oil seed rape may contain the following mycotoxins:

Aflatoxin B_1

incidence: $1/20^*$, conc.: 0.25 µg/kg, country: Spain⁸²⁷, *ncac

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina,

317 Oil seeds

jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), olives, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

CITRININ

incidence: 1/1* **, conc.: 4100 μg/kg, country: UK⁸⁰⁷, *moldy, **ncac see also angkak (red mold rice), barley, cereals, cheese, food, food colorant, fruits (apple), maize, maize dough, meal (copra), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), olives, rice, spices, spices (cardamom), spices (coriander), spices (cumin), spices (fennel), spices (pepper), spices (turmeric), wheat

STERIGMATOCYSTIN

incidence: 1/1* ***, conc.: 40 µg/kg, country: UK⁸⁰⁷, *moldy, **ncac see also barley, cassava, cheese, coffee, maize, nuts (almond), nuts (pecan), nuts (pistachio), rice, spices, spices (fennel), spices (pepper), wheat

VIOMELLEIN

incidence: 1/1*, conc.: tr, country: UK⁸⁰⁷, *moldy, **ncac see also barley, wheat

VIOXANTHIN

incidence: 1/1*, conc.: 40 μg/kg, country: UK⁸⁰⁷, *moldy, **ncac see also barley, wheat

XANTHOMEGNIN

incidence: 1/1*, conc.: tr, country: UK⁸⁰⁷, *moldy, **ncac see also barley, wheat

Oil seeds may contain the following mycotoxins:

Aflatoxins (B₁, B₂, G₁, G₂) incidence: 9/80*, conc. range: 2–20 μ g/kg (7 sa), >20 μ g/kg (2 sa), country: Uruguay⁷⁸⁷, *ncac

see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, paste (fig), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

Oil seeds 318

ZEARALENONE

incidence: 5/64*, conc. range: 100-200 µg/kg (2 sa), >200 µg/kg (3 sa), country: Uruguay⁷⁸⁷, *ncac see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Old Kashar

see Cheese

Olive oil

see Oil (olive)

Olives may contain the following mycotoxins:

Aflatoxin B₁

incidence: 12/103*, conc. range: 5–37 μg/kg, country: Morocco¹⁸⁵, *black, Greek–style incidence: 4/?*, conc. range: 0.6–5 μg/kg, country: Morocco²⁶⁶, *black, Greek style see also acha,

areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed,

congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

ALTENUENE

incidence: 1/4, conc.: 1400 μg/kg, country: Italy³⁴⁰ see also barley, fruits (apple), maize, ragi,

rice, sorghum, tomatoes, wheat

319 Palm oil

ALTERNARIOL

incidence: 4/4, conc. range: 109–2320 µg/kg, \varnothing conc.: 1120 µg/kg, country: Italy³⁴⁰ see also bran, fruits (apple), juice (apple, concentrate), fruits (apple, concentrate), fruits (mandarin fruit), spices (pepper), sunflower seeds, tomatoes, wheat

Alternariol Methyl Ether incidence: 4/4, conc. range: 30–2870 µg/kg, \varnothing conc.: 818 µg/kg, country: Italy³⁴⁰ see also barley, bran, fruits (apple), fruits (mandarin fruit), fruits (melon), juice (apple, concentrate), ragi, sorghum, spices (pepper), sunflower seeds, tomatoes, wheat

CITRININ

incidence: $3/10^*$, conc. range: 0.45-0.52 µg/kg, country: Morocco²⁶⁶, * black, Greek style

see also angkak (red mold rice), barley, cereals, cheese, food, food colorant, fruits (apple), maize, maize dough, meal (copra), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), oil seed rape, rice, spices, spices (cardamom), spices (coriander), spices (cumin), spices (fennel), spices (pepper), spices (turmeric), wheat

incidence: 5/103*, conc. range: 40-80 µg/kg,

country: Morocco¹⁸⁵, * black, Greek-style

incidence: 7/10*, conc. range: ?-1.02 μg/kg,

OCHRATOXIN A

country: Morocco²⁶⁶, * black, Greek style incidence: 4/7, conc. range: 0.3-46,830 μg/kg, country. Tunisia⁶³⁴ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits

(cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Tenuazonic Acid

incidence: 2/4, conc.: $109-262 \mu g/kg$, \varnothing conc. $186.5 \mu g/kg$, country: Italy³⁴⁰ see also bran, cassava, fruits (mandarin fruit), maize, pulp (tomato), ragi, rice, sorghum, spices (pepper), sunflower seeds, tomato purée, tomatoes, wheat

Orange juice

see Juice (orange)

Palm oil

see Oil (palm)

Pancake 320

Pancake may contain the following mycotoxins:

Deoxynivalenol

incidence: 4/16* **, conc. range: 700-1500 μg/kg, Ø conc.: 1100 μg/kg, country: USA⁴⁷⁸, *from China, **cooked see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rve), meal (wheat), millet, muesli, noodles, oat products, oats, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

ERGOCORNINE

incidence: 2/2*, conc. range: 7–7.2 µg/kg, Ø conc.: 7.1 µg/kg, country: Canada⁸⁰⁶, *dried see also bread, flour (rve), flour (wheat).

see also bread, flour (rye), flour (wheat), triticale

ERGOCRISTINE

incidence: 2/2*, conc. range: 26–37 μg/kg, Ø conc.: 31.5 μg/kg, country: Canada⁸⁰⁶, *dried see also bread, flour (rye), flour (wheat), triticale

ERGOMETRINE

incidence: 2/2*, conc. range: 4.7–10 μg/kg, Ø conc.: 7.35 μg/kg, country: Canada⁸⁰⁶, *dried see also bread, flour (rye), flour (wheat), triticale

Ergosine

incidence: $2/2^*$, conc. range: $5.65-10 \mu g/kg$, \varnothing conc.: $7.83 \mu g/kg$, country: Canada⁸⁰⁶, *dried see also bread, flour (rye), flour (wheat), triticale

ERGOTAMINE

incidence: 2/2*, conc. range: 19.5–22 μg/kg, Ø conc.: 20.8 μg/kg, country: Canada⁸⁰⁶, *dried see also bread, flour (rye), flour (wheat), triticale

α-Ergokryptine

incidence: $2/2^*$, conc. range: $8.25-9.4 \mu g/kg$, \varnothing conc.: $8.83 \mu g/kg$, country: Canada⁸⁰⁶, *dried see also bread, flour (rye), flour (wheat), triticale

FUMONISIN B₁

incidence: 6/16* **, conc. range: 500–2200 μg/kg, Ø conc.: 1067 μg/kg, country: USA⁴⁷⁸, *from China, **cooked see also arepas, asparagus, barley, batter, beans, beer, bran (maize), bread, cake (rice), cereals, cereals (breakfast), chamomile, chips (maize), chips (tortilla), flakes (corn), flour (maize), food, food (baby), foodstuff, grits (maize), Incaparina, leaves, maize, maize fiber, maize muffin, maize products, maize silk, maize starch, masa, meal (maize), meal (sorghum), milk, muffin mix, nuts (peanut), popcorn, rapoko, rice, snacks, sorghum, soybeans, syrup (sorghum), tea, tortillas, wheat

Fumonisin B₂

incidence: 2/16* **, conc. range: 700–1100 μg/kg, Ø conc.: 900 μg/kg, country: USA⁴⁷⁸, *from China, **cooked see also arepas, asparagus, barley, batter, beer, bran (maize), cereals, cereals (breakfast), chips (maize), chips (tortilla), flakes (corn), flour (maize), food (baby), foodstuff, grits (maize), Incaparina, maize, maize fiber, maize starch, masa, meal (maize), muffin mix, popcorn, rice, snacks, tortillas, wheat

Fumonisin B₃

incidence: 2/16* **, conc. range: 600–700 μg/kg, Ø conc.: 650 μg/kg, country: USA⁴⁷⁸, *from China, **cooked see also barley, cereal products, cereals, flour (maize), food (baby), Incaparina, maize, meal (maize), popcorn, rice, snacks

321 Pasta

Paprika

see Spices (paprika)

Paprika powder

see Spices (paprika)

Paranuts

see Nuts (Brazil)

Parmesan cheese

see Cheese

Pasta may contain the following mycotoxins:

Fumonisins

country: Czech Republic⁶⁷⁰, *maize, gluten-free see also beer, bread, cereal (infant), chips (tortilla), flakes (corn), flour (maize), grits (maize), maize, maize pops cereal, maize products, maize starch, maize (infant cream corn), meal (maize), muffin mix, popcorn,

porridge, products, sorghum, tortillas

incidence: 6/11*, conc. range: <9-511 µg/kg,

OCHRATOXIN A incidence: 10/10, conc. range: 0.2-3.5 µg/kg, Ø conc.: 1.4 μg/kg, country: Switzerland⁵⁷⁸ incidence: 10/32, conc. range: 0.1-0.19 µg/kg (5 sa), 0.2-0.49 μg/kg (1 sa), 0.5-1.49 μg/kg (4 sa), country: Germany⁶²³ incidence: 2/20*, conc. range: 0.3 µg/kg, Ø conc.: 0.3 μg/kg, country: Germany⁶⁴⁰, *with egg addition incidence: 6/34*, conc. range: 0.7–5.3 µg/kg, country: Germany⁶⁴⁰, *special incidence: 1/40*, conc.: 2 μg/kg, country: Germany⁶⁴⁰, *whole meal incidence: 29/50*, conc. range: ≤1.75 μg/kg, \emptyset conc.: 0.282 µg/kg, country: Germany⁶⁹⁰, *without egg incidence: 27/84*, conc. range: ≤0.95 µg/kg, Ø conc.: 0.199 μg/kg, country: Germany⁶⁹⁰, *with egg incidence: 10/27*, conc. range: <29.77 µg/kg, Ø conc.: 2.002 μg/kg, country: Germany⁶⁹⁰, *whole meal

incidence: 8/13*, conc. range: 0.2-0.5 µg/kg $(3 \text{ sa}), 0.6-1 \mu g/kg (3 \text{ sa}), 1.1-4 \mu g/kg (2 \text{ sa})$ with a maximum of 1.6 µg/kg), country: UK⁷⁴⁰, *raw materials see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, ligourice, liquerice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle),

Pasta 322

spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Paste (fig) may contain the following mycotoxins:

Aflatoxins (B_1, B_2, G_1, G_2) incidence: 9/10*, conc. range: 1-3.9 µg/kg (3 sa), 4-10 μg/kg (5 sa), 76 μg/kg (1 sa), country: UK⁷³⁹, *port sa see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

AFLATOXINS (TOTAL)

incidence: 105/132*, conc. range: 1–10 μg/kg (86 sa), >10 μg/kg (19 sa, with a max. of 165 μg/kg), country: UK¹⁶⁴, *from Turkey see also beans, butter, figs, maize, nut cereals, nuts (almond), nuts (brazil), nuts (cashew), nuts ("chico–felix"), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), rice, sunflower seeds

Paste (peanut) may contain the following mycotoxins:

AFLATOXINS incidence: 3/3, conc. range: 1.5–4.7 µg/kg, \varnothing conc.: 3 µg/kg, country: Sudan⁶⁵

incidence: 3/4*, conc. range: ≤11 μg/kg, Ø conc.: 9 μg/kg, country: USA¹⁹⁷, *imported see also beans, candy (peanut), candy (pistachio), cassava, figs, flour (maize), grain mixtures, grains, maize, maize dough, maize products, melon seeds, millet, nuts, nuts (almond), nuts (brazil), nuts (peanut), nuts (peanut butter), nuts (peanut mix), nuts (peanut products), nuts (pecan), nuts (pistachio), nuts (walnut), nuts and seeds, paste (pipian), peas, rice, sauce (leaf), snacks, sorghum, spices, spices (chilli), spices (cumin), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper), spices (tandoori), teff, tubers, wheat

Paste (pepper, red) may contain the following mycotoxins:

Aflatoxin

incidence: 1/1* ** ****, conc.: ≤102.2 µg/kg, country: Ethopia⁷⁶, *red, **paste, ***moldy see also barley, beer, bran (rice), flour (maize), injera, jars, kocho, maize, maize roti, malt (barley), malt (maize), nuts (peanut), nuts (peanut butter,nuts (pistachio), oil (peanut), rice, spices (pepper)

Paste (pipian) may contain the following mycotoxins:

Aflatoxins

incidence: 3/3*, conc. range: ≤78 µg/kg, Ø conc.: 53 µg/kg, country: USA¹⁹⁷, *imported see also beans, candy (peanut), candy

see also beans, candy (peanut), candy (pistachio), cassava, figs, flour (maize), grain mixtures, grains, maize, maize dough, maize products, melon seeds, millet, nuts, nuts (almond), nuts (brazil), nuts (peanut), nuts (peanut butter), nuts (peanut mix), nuts (peanut products), nuts (pecan), nuts (pistachio), nuts (walnut), nuts and seeds, paste (peanut), peas, rice, sauce (leaf), snacks, sorghum, spices, spices (chilli), spices (cumin), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper), spices (tandoori), teff, tubers, wheat

Paste (soybean) may contain the following mycotoxins:

323 Paste (soybean)

Aflatoxin B_1 incidence: 1/80*, conc.: nc, country: Taiwan823, *fermented see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olive, peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices

(paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxin B_2

incidence: 4/80*, conc. range: nc, country: Taiwan⁸²³, *fermented see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

AFLATOXIN G₁ incidence: 1/80*, conc.: nc, country: Taiwan⁸²³, *fermented see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts

Paste (soybean) 324

(coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

Aflatoxin G₂

incidence: 8/80*, conc. range: nc, country: Taiwan823, *fermented see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

Pastries may contain the following mycotoxins:

OCHRATOXIN A

incidence: 23/31*, conc. range: ≤0.92 μg/kg, country: Germany⁵⁹², *salt see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa

powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, ligourice, ligourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Peaches

see Fruits (peach)

325 Peas

Peanut brittle

see Nuts (peanut brittle)

Peanut butter

see Nuts (peanut butter)

Peanut butter/vegetable oil may contain the following mycotoxins:

AFLATOXIN B₁ incidence: 20*/101, conc. range: 64–1736 μg/kg, country: Nepal²³⁹, * >30 μg/kg see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olive, paste (soybean), peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products,

sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli) powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fennel), spices (fennel), spices (fennel), spices (findian cassia), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Peanut candy

see Candy (peanut)

Peanut meal

see Meal (peanut)

Peanut mix

see Nuts (peanut mix)

Peanut oil

see Oil (peanut)

Peanut paste

see Paste (peanut)

Peanut products

see Nuts (peanut products)

Peanut sauce

see Sauce (peanut)

Peanuts

see Nuts (peanut)

Pear juice

see Juice (pear)

Pears

see Fruits (pear)

Peas may contain the following mycotoxins:

Aflatoxin B_1 incidence: 1/35, conc.: 25 $\mu g/kg$, country: Tunisia²⁰

Peas 326

incidence: 1/32, conc. range: 1-10 µg/kg (1 sa), country: Cuba47 see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olive, paste (soybean), peanut butter / vegetable oil, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne),

spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxin G_1 incidence: 1/35, conc.: 42 µg/kg, country: Tunisia²⁰ see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

Aflatoxins (B_1, B_2, G_1, G_2) incidence: 3/13*, conc. range: 18-30 µg/kg, Ø conc.: 24 μg/kg, country: Sudan²⁵⁷, *ncac see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (figs), phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek),

spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

Aflatoxins

incidence: 3*/19, conc. range: 1-100 µg/kg, country: Uganda⁵, *2 sa contained AFB₁, 1 AFB₂, 1 AFG₁ see also beans, candy (peanut), candy (pistachio), cassava, figs, flour (maize), grain mixtures, grains, maize, maize dough, maize products, melon seeds, millet, nuts, nuts (almond), nuts (brazil), nuts (peanut), nuts (peanut butter), nuts (peanut mix), nuts (peanut products), nuts (pecan), nuts (pistachio), nuts (walnut), nuts and seeds, paste (peanut), paste (pipian), rice, sauce (leaf), snacks, sorghum, spices, spices (chilli), spices (cumin), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper), spices (tandoori), teff, tubers, wheat

OCHRATOXIN A

incidence: 1*/84**, conc.: 21 μg/kg, country: Canada²⁶, *imported, **and dry beans incidence: 1/15*, conc.: 1.4 μg/kg, country: Germany⁶⁴⁰, *and chickpeas see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney

(poultry), knäckebröd, lentils, linseeds, ligourice, ligourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Peas, lentils, beans

see Legume

Pecans

see Nuts (pecan)

Pepper

see Spices (pepper)

Pepper (cayenne)

see Spices (pepper, cayenne)

Pepper- and barbecue sauce

see Sauce

Phane 328

Phane may contain the following mycotoxins:

Aflatoxins (B_1, B_2, G_1, G_2) incidence: 16/28, conc. range: 0.1-10 µg/kg, Ø conc.: 2.5 μg/kg, country: Botswana⁸¹³ see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (figs), peas, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

Pheasant

see Kidney (pheasant) as well as Liver (pheasant)

Pia

see Pork

Pig blood may contain the following mycotoxins:

OCHRATOXIN A

incidence: 36/195, conc. range: 3-270 µg/l,

country: Poland⁶²¹

incidence: 63/105, conc. range: <122 µg/l,

country: Poland724

see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa,

copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Pig kidney

see Kidney (pig)

Pig muscle may contain the following mycotoxins:

329 Pig serum

OCHRATOXIN A

incidence: 9/52, conc. range: <0.53 µg/kg, \emptyset conc.: 0.15 µg/kg, country: Romania⁵⁸⁶ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic

pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Pig liver

see Liver (pig)

Pig serum may contain the following mycotoxins:

OCHRATOXIN A

incidence: 93/191, conc. range: 0.1-67.3 μg/l, Ø conc.: 5.8 μg/l, country: Germany⁵⁷⁷ incidence: 51/52, conc. range: \leq 13.4 µg/l, Ø conc.: 2.43 μg/l, country: Romania⁵⁸⁶ incidence: 118/487, conc. range: 0.1-0.5 µg/l $(104 \text{ sa}), 0.51-1 \mu\text{g/l} (5 \text{ sa}), \leq 30.4 \mu\text{g/l} (9 \text{ sa}),$ country: Austria⁵⁸⁹ incidence: 44/85, conc. range: 0.1-0.9 µg/l $(26 \text{ sa}), 1-1.9 \mu\text{g/l} (5 \text{ sa}), 2-2.9 \mu\text{g/l} (5 \text{ sa}),$ 3–3.9 μ g/l (2 sa), 4–4.9 μ g/l (2 sa), \leq 17.6 μ g/l (4 sa), country: Germany⁶⁰³ incidence: 910/1200, conc. range: <10 µg/l (774 sa), 10–20 μg/l (87 sa), 20–50 μg/l (36 sa), 50-100 μg/l (8 sa), 100-150 μg/l $(2 \text{ sa}), 150-200 \mu\text{g/l} (2 \text{ sa}), 229 \mu\text{g/l} (1 \text{ sa}),$ country: Canada⁶⁴⁴ incidence: 572/1588, conc. range: 0.3-211 μg/l, country: Canada⁶⁴⁸ incidence: 191/216, conc. range: $\leq 0.1 \,\mu g/l$ $(178 \text{ sa}), \le 1 \mu g/l (11 \text{ sa}), \le 5 \mu g/l (2 \text{ sa}, \text{ with})$ a maximum of 12.5 μ g/l), \varnothing conc.: 0.5 μ g/l, country: Norway⁶⁷⁵ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize),

Pig serum 330

flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, ligourice, ligourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Zearalenone

incidence: 9/52, conc. range: \leq 0.964 µg/l, \varnothing conc.: 0.8 µg/l, country: Romania⁵⁸⁶ see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food

(infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Pig (black pudding) may contain the following mycotoxins:

OCHRATOXIN A

incidence: 4/28*, conc. range: 1-5 μg/kg (4 sa, with a maximum of 1.8 μg/kg), country: UK⁶³⁶, *and from different countries? see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize),

331 Plant commodities

meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Pilsener

see Beer

Pine nuts

see Nuts (pine)

Pinhol

see Spices (pinhol)

Pipian paste

see Paste (pipian)

Pistachio candy

see Candy (pistachio)

Pistachio meal

see Meal (pistachio)

Pistachios

see Nuts (pistachio)

Pito

see Beer

Plant commodities may contain the following mycotoxins:

OCHRATOXIN A

incidence: 6/315, conc. range: 3-8 µg/kg country: Canada26 see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice

powder, spices (cardamom), spices (chilli),

spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices

Plant commodities 332

(curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Plasma

see Pig (serum)

Plum pulp

see Pulp (plum)

Plums

see Fruits (plum)

Polenta

see Grits (maize)

Poonac may contain the following mycotoxins:

Aflatoxin B₁

incidence: 20/38, conc. range: <50 µg/kg (4 sa), 50–250 μg/kg (10 sa), 250–1000 μg/kg (5 sa), \leq 1270 µg/kg (1 sa), country: Ceylon⁹ see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan

(almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olive, paste (soybean), peanut butter / vegetable oil, peas, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Popcorn may contain the following mycotoxins:

AFLATOXIN B₁

incidence: 2/24, conc. range: 8–59 μg/kg, Ø conc.: 33.5 μg/kg, country: Brazil²³⁰ incidence: 5/15, conc. range: 20–47 μg/kg, Ø conc.: 35 μg/kg, country: Brazil⁸¹⁶ see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits Popcorn Popcorn

(apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olive, paste (soybean), peanut butter / vegetable oil, peas, poonac, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxin B₂

incidence: 1/24, conc.: 2.4 μg/kg, country: Brazil²³⁰

see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango),

Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Aflatoxin G₁

incidence: 1/15, conc.: 18 μg/kg, country: Brazil⁸¹⁶

see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

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Aflatoxin G₂

incidence: 1/15, conc.: 8 µg/kg, country: Brazil⁸¹⁶

see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

Deoxynivalenol

incidence: 4/8, conc. range: 2800-4500 µg/kg, Ø conc.: 3900 μg/kg, country: USA⁴²⁴ incidence: 7/7*, conc. range: 12-250 µg/kg, Ø conc.: 84 μg/kg, country: Japan⁵³¹, *from

incidence: 9/18, conc. range: <180 μg/kg,

country: USA545 see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

Fumonisin B₁

incidence: 4/9, conc. range: ≤1720 µg/kg, Ø conc.: 210 μg/kg, country: Brazil²¹⁵

incidence: 1/18*, conc.: 69.4 μg/kg, country: USA²³⁵, *products

incidence: 2/8, conc. range: 114–115 µg/kg, Ø conc.: 114.5 µg/kg, country: Germany²⁷⁴ incidence: 16/36*, conc. range: 3–161 µg/kg, country: Germany²⁹⁰, *partly imported from Canada, Italy, USA

incidence: 4/6*, conc. range: 10-60 μg/kg, Ø conc.: 28.3 μg/kg, country: Italy³⁶², *kernels and product

incidence: 4/9, conc. range: 1-474 µg/kg, country: Denmark³⁸⁵

incidence: 1/2, conc.: 199 μg/kg, country: Uruguay³⁹⁹

incidence: ?/5, conc. range: <100-500 μg/kg, country: USA⁴⁰³

incidence: 2/2, conc. range: 10-60 µg/kg, Ø conc.: 35 μg/kg, country: USA⁴¹⁰ incidence: 7/22, conc. range: ≤1003 µg/kg, Ø conc.: 347.3 μg/kg, country: Taiwan⁴¹⁸ incidence: 4/6, conc. range: 12-114 µg/kg, Ø conc.: 69.3 μg/kg, country: Germany⁴²⁰ incidence: 4/8, conc. range: 78-246 µg/kg, Ø conc.: 168 μg/kg, country: Colombia⁶⁷² incidence: 6/8* **, conc. range: 12-424 µg/kg, Ø conc.: 100 μg/kg, country: Sweden⁶⁸², *imported?, **and flour, gruel see also arepas, asparagus, barley, batter, beans, beer, bran (maize), bread, cake (rice), cereals, cereals (breakfast), chamomile, chips (maize), chips (tortilla), flakes (corn), flour (maize), food, food (baby), foodstuff, grits (maize), Incaparina, leaves, maize, maize fiber, maize muffin, maize products, maize silk, maize starch, masa, meal (maize), meal (sorghum), milk, muffin mix, nuts (peanut), pancake, rapoko, rice, snacks, sorghum, soybeans, syrup (sorghum), tea, tortillas, wheat

Fumonisin B₂

incidence: 4/9, conc. range: ≤300 µg/kg, Ø conc.: 180 μg/kg, country: Brazil²¹⁵ incidence: 1/6*, conc.: 20 μg/kg, country: Italy³⁶², *kernels and product incidence: 1/9, conc.: 59 µg/kg, country: Denmark³⁸⁵

incidence: 7/22, conc. range: <273 µg/kg, Ø conc.: 115.7 μg/kg, country: Taiwan⁴¹⁸

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incidence: 3/8, conc. range: 62–78 μg/kg, Ø conc.: 72 μg/kg, country: Colombia⁶⁷² incidence: 3/8* **, conc. range: 8–38 μg/kg, Ø conc.: 18 μg/kg, country: Sweden⁶⁸², *imported?, **and flour, gruel see also arepas, asparagus, barley, batter, beer, bran (maize), cereals, cereals (breakfast), chips (maize), chips (tortilla), flakes (corn), flour (maize), food (baby), foodstuff, grits (maize), Incaparina, maize, maize fiber, maize starch, masa, meal (maize), muffin mix, pancake, rice, snacks, tortillas, wheat

Fumonisin B₃

incidence: 1/18*, conc.: 45.76 µg/kg, country: USA²³⁵, *products see also barley, cereal products, cereals, flour

see also barley, cereal products, cereals, flour (maize), food (baby), Incaparina, maize, meal (maize), pancake, rice, snacks

Fumonisins (B_1, B_2, B_3)

incidence: 6/13*, conc. range: 14–784 µg/kg, country: UK³⁸³, *popping and microwaveable see also bran (maize), cereals (breakfast), flour, flour (maize), germ (maize), grains, grits (maize), maize, maize–based thickeners, snacks, tortillas

Fumonisins

incidence: 1/1*, conc.: 250 μg/kg, country: USA³⁵⁷

see also beer, bread, cereal (infant), chips (tortilla), flakes (corn), flour (maize), grits (maize), maize, maize pops cereal, maize products, maize starch, maize (infant cream corn), meal (maize), muffin mix, pasta, porridge, products, sorghum, tortillas

Moniliformin

incidence: 6/22, conc. range: <15–91 μg/kg, country: UK⁷⁴³

see also barley, corn on the cob, flakes (corn), flour (maize), foodstuff, grits (maize),maize, maize–based thickeners, meal (maize), oats, rye, snacks, triticale, wheat

OCHRATOXIN A

incidence: 1/29, conc.: 1.4 μg/kg, country: Germany⁶⁴⁰

see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley),

bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Popcorn 336

Zearalenone

incidence: 1/24, conc.: 448 µg/kg, country: Brazil²³⁰

incidence: 1/8, conc.: 10 µg/kg, country: USA424

incidence: 4/7, conc. range: 2.5-130 µg/kg, Ø conc.: 38 μg/kg, country: USA⁸³¹ see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Poppadoms may contain the following mycotoxins:

Aflatoxins (B_1, B_2, G_1, G_2) incidence: ?/4, conc. range: 0.6-2 µg/kg, country: UK⁷³²

see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (figs), peas, phane, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder),

spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

Pork may contain the following mycotoxins:

OCHRATOXIN A

incidence: 10/58, conc. range: ≤0.14 µg/kg,

country: Germany⁵⁹⁸

incidence: $64/76^*$, conc. range: $\leq 1.3 \, \mu g/kg$, country: Denmark⁶²⁴, *c

incidence: $4/7^*$, conc. range: $\leq 0.12 \,\mu g/kg$, country: Denmark⁶²⁴, *o

incidence: 228/300, conc. range: 0.03-0.06 μg/kg (134 sa), 0.06-0.09 μg/kg (27 sa), $0.09-0.5 \mu g/kg (55 sa), 0.5-1 \mu g/kg (3 sa), >1$ μg/kg (9 sa, with a maximum of 2.9 μg/kg), Ø conc.: 0.12 μg/kg*, country: Denmark⁶²⁶,

*arithmetic mean incidence: 1/12, conc.: 5 µg/kg, country:

Yugoslavia⁶²⁹

see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal),

337 Porridge

meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Pork pate may contain the following mycotoxins:

OCHRATOXIN A

incidence: 1/10, conc.: $<4 \mu g/kg$, country: UK^{742}

see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum),

fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liquerice, liquerice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Porridge may contain the following mycotoxins:

AFLATOXIN B₂

incidence: 1*/?, conc.: tr, country: Kenya⁷⁴⁶, *rolled, oats

see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango),

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Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

FUMONISINS

incidence: 18/19*, conc. range: <9–788 µg/kg, country: Czech Republic⁶⁷⁰, *maize instant, gluten–free see also beer, bread, cereal (infant), chips (tortilla), flakes (corn), flour (maize), grits (maize), maize, maize pops cereal, maize products, maize starch, maize (infant cream corn), meal (maize), muffin mix, pasta, popcorn, products, sorghum, tortillas

Port wine

see Wine

Posho meal

see Meal (posho)

Potatoes may contain the following mycotoxins:

OCHRATOXIN A

incidence: 1/11*, conc.: 4.26 µg/kg, country: Germany²⁸⁹, *moldy see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat,

butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

339 Products

Poultry kidney

see Kidney (poultry)

Products may contain the following mycotoxins:

FUMONISINS

incidence: 26/26*, conc. range: 14–1178 μg/kg, Ø conc.: 301 μg/kg, country: Czech Republic⁶⁷⁰, *maize-extruded, gluten-free see also beer, bread, cereal (infant), chips (tortilla), flakes (corn), flour (maize), grits (maize), maize, maize pops cereal, maize products, maize starch, maize (infant cream corn), meal (maize), muffin mix, pasta, popcorn, porridge, sorghum, tortillas

HT-2 TOXIN

incidence: 1/21*, conc.: 5 µg/kg, country: Germany⁵²⁰, *potato see also barley, bran (oat), bran (wheat), bread, cereal (baby), cereals, cereals (breakfast), flakes (oat), flour (maize), flour (wheat), food, food (baby), germ (wheat), grits (maize), groats (oat), maize, noodles, nuts (hazelnut), oat products, oats, pumpkin seeds, rye, spices (chilli powder), spices (curry), sunflower seeds, wheat

incidence: 3/21*, conc. range: ≤0.04 µg/kg,

country: Germany⁵⁹⁸, *cooked

OCHRATOXIN A

incidence: 12/30*, conc. range: <0.86 µg/kg, Ø conc.: 0.205 μg/kg, country: Germany⁶⁹⁰, *mixed (Tortellini) see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food

(infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

SCIRPENOL

incidence: 2/21*, conc. range: 23–35 μg/kg, country: Germany⁵²⁰, *potato

DIACETOXYSCIRPENOL

incidence: 1/21*, conc.: 21 µg/kg, country: Germany⁵²⁰, *potato see also beans, beer, bran (wheat), cereals, maize, nuts (peanut), oats, rice, soybeans, spices (chilli powder), spices (curry), wheat

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15-Monoacetoxyscirpenol incidence: 3/21*, conc. range: 5–26 μg/kg, country: Germany⁵²⁰, *potato

ZEARALENONE

incidence: 1/21*, conc.: 2 μg/kg, country: Germany⁵²⁰, *potato see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Prunes

see Fruits (prune)

Pulp (grape) may contain the following mycotoxins:

OCHRATOXIN A

incidence: 14/16*, conc. range: 0.0212–0.0354 µg/l, country: Brazil²⁶⁰, *frozen see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes

(corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, ligourice, liquerice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Pulp (plum) may contain the following mycotoxins:

Patulin

incidence: 1/1, conc.: 0.8 $\mu g/kg$, country: Germany⁷⁰⁵

see also apple cider, apple flavor, apples (stewed fruit), berries (blueberry), berries (lingnonberry), berries (mulberry), berries 341 Pumpkin seeds

(raspberry), berries (strawberry), cassava, cheese, food (baby), fruit products, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (pear), fruits (plum), jam, jam (apple), juice, juice (apple), juice (apple–acerola), juice (apple, concentrate), juice (cherry), juice (currant), juice (fruit), juice (grape), juice (orange), juice (peach), juice (pear), must, syrup (apple), vinegar

Pulp (tomato) may contain the following mycotoxins:

Cyclopiazonic Acid

incidence: 6/12, conc. range: 64–178 µg/kg, \varnothing conc.: 109.2 µg/kg, country: Brazil³³² see also cassava, cheese, maize, milk (cow), nuts (peanut), tomato purée

Tenuazonic Acid

incidence: 7/12, conc. range: 39–111 μg/kg, Øs conc.: 73.6 μg/kg, country: Brazil³³² see also bran, cassava, fruits (mandarin fruit), maize, olives, ragi, rice, sorghum, spices (pepper), sunflower seeds, tomato purée, tomatoes, wheat

Pulses may contain the following mycotoxins:

OCHRATOXIN A

incidence: 2/64, conc. range: >10 μg/kg, country: UK⁷⁴² see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley

(strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum),

fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liquerice, liquerice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Pumpkin seeds may contain the following mycotoxins:

HT-2 Toxin

incidence: 1/5, conc.: 5 μg/kg, country: Germany⁵²⁰

see also barley, bran (oat), bran (wheat), bread, cereal (baby), cereals, cereals (breakfast), flakes (oat), flour (maize), flour (wheat), food, food (baby), germ (wheat), grits (maize), groats (oat), maize, noodles, nuts (hazelnut), oat products, oats, products, Pumpkin seeds 342

rye, spices (chilli powder), spices (curry), sunflower seeds, wheat

ZEARALENONE

incidence: 1/21, conc.: 4 μ g/kg, country: Germany⁵²⁰

see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Pumpernickel may contain the following mycotoxins:

OCHRATOXIN A

incidence: 8/9, conc. range: 0.05–0.09 µg/kg (2 sa), 0.1–0.19 µg/kg (3 sa), 0.2–0.49 µg/kg (2 sa), 0.5–1.49 µg/kg (1 sa), country: Germany 623

incidence: 55/64, conc. range: ≤2.288 µg/kg, Ø conc.: 0.145 µg/kg, country: Germany⁶⁹⁰ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal),

flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cavenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Ragi may contain the following mycotoxins:

Aflatoxin B_1

incidence: 8/22, conc. range: 14–240 μ g/kg, country: India³⁹⁸

country: India

incidence: 10/37, conc. range: 18–55 μ g/kg, country: India⁷⁸⁹

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see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olive, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxin B₂

incidence: 5/37, conc. range: 12-30 µg/kg, country: India⁷⁸⁹ see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

ALTENUENE

incidence: 1/8*, conc.: 30 μg/kg, country: India³³⁷, *ncac see also barley, fruits (apple), maize, olives, rice, sorghum, tomatoes, wheat

ALTERNARIOL METHYL ETHER

incidence: 2/8*, conc. range: 800–1400 μg/kg, Ø conc.: 1100 μg/kg, country: India³³⁷, *ncac see also barley, bran, fruits (apple), fruits (mandarin fruit), fruits (melon), juice (apple, concentrate), olives, sorghum, spices (pepper), sunflower seeds, tomatoes, wheat

OCHRATOXIN A

incidence: 1/15, conc.: 70 μg/kg, country: India⁶⁵⁶

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see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices

(tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

TENUAZONIC ACID

incidence: 3/8*, conc. range: 2030–5700 μg/kg, Ø conc.: 3843 μg/kg, country: India³³⁷, *ncac

see also bran, cassava, fruits (mandarin fruit), maize, olives, pulp (tomato), rice, sorghum, spices (pepper), sunflower seeds, tomato purée, tomatoes, wheat

Raisins may contain the following mycotoxins:

Aflatoxin B_1

incidence: 1/52, conc.: 0.06 μg/kg, country: France³⁹⁷

incidence: 3/8, conc. range: 15-180 µg/kg,

country: India802 see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts

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(coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olive, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂

incidence: 2/8, conc. range: 16-150 µg/kg, Ø conc.: 83 μg/kg, country: India⁸⁰² see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices

(garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Aflatoxin G_1

incidence: 2/8, conc. range: 15-80 µg/kg, Ø conc.: 47.5 μg/kg, country: India⁸⁰² see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

Aflatoxin G_2

incidence: 1/8, conc.: 15 μg/kg, country: India⁸⁰²

see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, rice, sesame seeds, shoyu, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (Indian

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cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

OCHRATOXIN A

incidence: 96/118* **, conc. range: <0.1–34.6 µg/kg, country: Sweden²⁵³, *and currants, **imported?

incidence: $101/106^*$, conc. range: ≤ 21.4 µg/kg, country: Germany⁵⁹², *and currants incidence: $17/20^*$, conc. range: 0.3->19.5 µg/kg, country: UK⁶³⁵, *from different countries

incidence: 98/101*, conc. range: 0.1 µg/kg (5 sa), 0.2–4 µg/kg (73 sa), 4.1–10 µg/kg (13 sa), 10.1–20 µg/kg (6 sa), 29.8 µg/kg (1 sa), country: UK⁶³⁸, *from different countries

incidence: 1/8, conc.: pr, country: India⁸⁰² incidence: 6/20*, conc. range: 0.05–4.95 μg/kg, Ø conc.: 0.96 μg/kg, country: Morocco⁸⁵⁹, *dried

see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liquerice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize),

meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Rapoko may contain the following mycotoxins:

Fumonisin B₁

incidence: 5/5, conc. range: 300–2000 µg/kg, Ø conc.: 1160 µg/kg, country: Zimbabwe³⁶⁵ see also arepas, asparagus, barley, batter, beans, beer, bran (maize), bread, cake (rice), cereals, cereals (breakfast), chamomile, chips (maize), chips (tortilla), flakes (corn), flour (maize), food, food (baby), foodstuff, grits (maize), Incaparina, leaves, maize, maize fiber, maize muffin, maize products, maize silk, maize starch, masa, meal (maize), meal (sorghum), milk, muffin mix, nuts (peanut), pancake, popcorn, rice, snacks, sorghum, soybeans, syrup (sorghum), tea, tortillas, wheat

Ras cheese

see Cheese

Raspberries

see Berries (raspberry)

Red mold rice

see Angkak (red mold rice)

Red wine

see Wine

Retsina

see Wine

Rice may contain the following mycotoxins:

Aflatoxin B₁

incidence: 1/50, conc.: 28 µg/kg, country:

Egypt⁴³

incidence: 18/715, conc. range: 1-10 μg/kg (15 sa), >10–20 μg/kg (3 sa), country: Cuba⁴⁷

incidence: 6/8*, conc. range: tr-15 µg/kg,

country: Nepal⁹², *raw

incidence: 4/4*, conc. range: tr-12.5 µg/kg,

country: Nepal⁹², *parboiled

incidence: 2/74, conc. range: 0.3–2.7 µg/kg, Ø

conc.: 1.5 µg/kg, country: Japan⁹⁹

incidence: 1/1*, conc.: 8 μg/kg, country:

Japan¹³⁵, *from Egypt

incidence: 3/39*, conc. range: 285–498.9

μg/kg, Ø conc.: 381.3 μg/kg, country:

Egypt¹⁴⁴, *Paddy

incidence: 2/13, conc. range: 20-50 µg/kg,

Ø conc.: 35 μg/kg, country: India¹⁷⁴ incidence: ?/8, conc. range: 81-150 µg/kg,

country: Nigeria¹⁷⁷

incidence: 2/8, conc. range: 182.4-225.9

 $\mu g/kg$, \varnothing conc.: 204.2 $\mu g/kg$, country:

Taiwan¹⁹⁰

incidence: $582/1511^*$, conc. range: $\geq 5-361$ μg/kg, country: India²⁸⁴, *parboiled

incidence: 4/40*, conc. range: 1–13.6 μg/kg,

Ø conc.: 7.13 μg/kg, country: Colombia²⁹⁶,

*and products

incidence: 160/250*, conc. range: 1.3-17.4

μg/kg, country: UAE²⁹⁷, *long grain

incidence: 80/250*, conc. range: 1.3-13.8

μg/kg, country: UAE²⁹⁷, *short grain incidence: 5/88, conc. range: 1.8-7.3 µg/kg, Ø

conc.: 4.3 µg/kg, country: Korea²⁹⁹ incidence: 19/41, conc. range: 82-1134 µg/kg,

country: India³⁹⁸

incidence: 10/10, conc. range: <1.5-10 µg/kg,

country: Côte d'Ivoire557

incidence: 1/?, conc.: tr, country: Kenya⁷⁴⁶

incidence: 9/32*, conc. range: 15-620 µg/kg,

country: India⁷⁸⁹, *broken

incidence: 2/52*, conc. range: 26-38 μg/kg, Ø conc.: 32 μg/kg, country: Brazil⁸¹⁶,

*polished

incidence: 2/25*, conc. range: 0.2-<0.5 µg/kg (2 sa, with a maximum of 0.3 μg/kg),

country: UK835, *long grain

incidence: 2/23*, conc. range: 0.2-<0.5 μg/kg (2 sa, with a maximum of 0.3 μg/kg),

country: UK⁸³⁵, *easy cook

incidence: 9/18*, conc. range: 0.2-<0.5 µg/kg (6 sa), $0.5 - < 1 \mu g/kg$ (1 sa), $1 - < 2 \mu g/kg$ (2 sa,

with a maximum of 1.7 μg/kg), country: UK835, *basmati

incidence: 3/6*, conc. range: 0.2-<0.5 µg/kg (2 sa), 1.6 μ g/kg (1 sa), country: UK⁸³⁵,

*brown

incidence: 1/3*, conc.: 0.2 µg/kg, country:

UK⁸³⁵, *ground

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts

(coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olive, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxin B_2 incidence: 1/4*, conc.: 1.8 µg/kg, country: Nepal⁹², *parboiled incidence: 2/74, conc. range: <0.1 µg/kg, country: Japan99 incidence: 1/1*, conc.: 2 µg/kg, country: Japan¹³⁵, *from Egypt incidence: 6/32*, conc. range: 10-220 µg/kg, country: India⁷⁸⁹, *broken incidence: 1/52*, conc.: 15 μg/kg, country: Brazil816, *polished see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts

(hazelnut), nuts (peanut), nuts (peanut

butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

incidence: 2/84, conc. range: 73.1-77.5 µg/kg,

Aflatoxin G₁

Ø conc.: 75.3 μg/kg, country: Malaysia³ incidence: 2/74, conc. range: 0-0.9 µg/kg, Ø conc.: 0.5 μg/kg, country: Japan⁹⁹ incidence: 1/39*, conc.: 32.5 µg/kg, country: Egypt¹⁴⁴, *Paddy incidence: 1/52*, conc.: 20 μg/kg, country: Brazil816, *polished see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

Aflatoxin G_2

incidence: 3/84, conc. range: 3.7–96.3 μ g/kg, \varnothing conc.: 45.6 μ g/kg, country: Malaysia³

see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, raisins, sesame seeds, shoyu, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

Aflatoxin

incidence: 29/433* **, conc. range: tr–1130 μg/kg, country: India³²⁰, *rough, **ncac incidence: 4/238* **, conc. range: tr–120 μg/kg, country: India³²⁰, *raw, **ncac incidence: 25/142* **, conc. range: tr–130 μg/kg, country: India³²⁰, *parboiled, **ncac see also barley, beer, bran (rice), flour (maize), injera, jars, kocho, maize, maize roti, malt (barley), malt (maize), nuts (peanut), nuts (peanut butter), nuts (pistachio), oil (peanut), paste (pepper, red), spices (pepper)

AFLATOXINS (B_1 , B_2) incidence: 4/242, conc. range: nc, country: Egypt²⁸⁸ see also flour (maize), maize, meal (protein supplement), millet, spices

AFLATOXINS (B₁, B₂, G₁) incidence: 9/18*, conc. range: 6–20 μ g/kg (2 sa), 21–50 μ g/kg (4 sa), ≤83 μ g/kg (3 sa) country: Guatemala³³, *with bran see also coffee, maize, meal (maize), nuts (peanut)

AFLATOXINS (B₁, B₂, G₁, G₂) incidence: 2/6, conc. range: $<5 \mu g/kg$ (1 sa), 8 $\mu g/kg$ (1 sa) country: Guatemala³³ incidence: 7/364, \varnothing conc.: 20 $\mu g/kg$, max. conc.: 98 $\mu g/kg$, country: Thailand¹⁶³

incidence: 2/242, conc. range: nc, country: Egypt²⁸⁸ incidence: ?/4* **, conc. range: 0.1-2.4 μg/kg, country: UK732, *Basmati, **imported incidence: 2/25*, conc. range: 0.2-<0.5 µg/kg (2 sa, with a maximum of 0.3 μg/kg), country: UK835, *long grain incidence: 2/23*, conc. range: 0.2-<0.5 µg/kg (2 sa, with a maximum of 0.3 μg/kg), country: UK835, *easy cook incidence: 9/18*, conc. range: 0.2-<0.5 µg/kg (6 sa), $1-<2 \mu g/kg$ (3 sa, with a maximum of 1.8 μg/kg), country: UK⁸³⁵, *basmati incidence: 3/6*, conc. range: 0.2-<0.5 μg/kg (2 sa), 1.8 μ g/kg (1 sa), country: UK⁸³⁵, *brown incidence: 1/3*, conc.: 0.2 μg/kg, country: UK⁸³⁵, *ground see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (figs), peas, phane, poppadoms, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne),

AFLATOXINS (TOTAL) incidence: 9/99*, conc. range: >6.8–10 μg/kg (4 sa), –15 μg/kg (3 sa), –35 μg/kg (1 sa), –40 μg/kg (1 sa), country: Switzerland¹³¹, *from Ecuador see also beans, butter, figs, maize, nut cereals, nuts (almond), nuts (brazil), nuts (cashew),

sunflower seeds, vegetables, wheat

nuts (almond), nuts (brazil), nuts (cashew), nuts ("chico-felix"), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), paste (fig), sunflower seeds

Aflatoxins

incidence: 1/72*, conc.: 33 µg/kg, country: Philippines³², *includes rice and rice products incidence: 14/20, conc. range: 2–19 µg/kg, \varnothing conc.: 7.9 µg/kg, country: The Gambia³² incidence: 13/30*, conc. range: 22–317 µg/kg AFB¹, 15–125 µg/kg AFB², 14–107 µg/kg AFG¹, 20–98 µg/kg AFG², country: India³84, *ncac

see also beans, candy (peanut), candy (pistachio), cassava, figs, flour (maize), grain mixtures, grains, maize, maize dough, maize products, melon seeds, millet, nuts, nuts (almond), nuts (brazil), nuts (peanut), nuts (peanut butter), nuts (peanut mix), nuts (peanut products), nuts (pecan), nuts (pistachio), nuts (walnut), nuts and seeds, paste (peanut), paste (pipian), peas, sauce (leaf), snacks, sorghum, spices, spices (chilli), spices (cumin), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper), spices (tandoori), teff, tubers, wheat

ALTENUENE

incidence: 2/10, conc. range: \leq 100 µg/kg, country: Egypt²⁹¹ see also barley, fruits (apple), maize, olives, ragi, sorghum, tomatoes, wheat

CITRININ

incidence: 13/33, conc. range: 64.1-279 µg/kg, Ø conc.: 113.8 μg/kg, country: Egypt⁷²¹ incidence: 2/2*, conc. range: 700-1130 µg/kg, \emptyset conc.: 915 µg/kg, country: Japan⁷⁴⁷, *brown incidence: 4/30*, conc. range: 49-92 µg/kg, country: India⁷⁸⁴, *ncac incidence: 6/18*, conc. range: 12-55 µg/kg, country: India⁷⁸⁹, *par-boiled see also angkak (red mold rice), barley, cereals, cheese, food, food colorant, fruits (apple), maize, maize dough, meal (copra), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), oil seed rape, olives, spices, spices (cardamom), spices (coriander), spices (cumin), spices (fennel), spices (pepper), spices (turmeric), wheat

Deoxynivalenol

incidence: 3/88*, conc. range: 105–159 μg/kg, Ø conc.: 139 μg/kg, country: Korea²⁶⁴, *polished

incidence: 3/4, conc. range: 3900-9500 µg/kg, Ø conc.: 6800 μg/kg, country: USA⁴²⁴ incidence: 14/26, conc. range: 15-305 µg/kg, Ø conc.: 107 μg/kg, country: Germany⁵¹⁷ incidence: 1/1* ** ***, conc.: 90 μg/kg, country: Papua, New Guinea⁵⁷⁴, *from Australia, **brown trukai, ***ncac incidence: ?/4* **, conc. range: 4-6 µg/kg, country: UK⁷³², *basmati, **imported incidence: ?/4* **, conc. range: 4-7 µg/kg, country: UK⁷³², *Chinese, **imported see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

3-Acetyldeoxynivalenol

incidence: 2/26, conc. range: $11-20~\mu g/kg$, \varnothing conc.: 15 $\mu g/kg$, country: Germany⁵¹⁷ see also barley, bread, cereals, cereals (breakfast), flakes (oat), flour (maize), flour (wheat), food, food (baby), grits (maize), maize, oat products, oats, rye, snacks, wheat

Fumonisin B₁

incidence: 2/88*, conc. range: 48.2–60.6 μg/kg, Ø conc.: 54.4 μg/kg, country: Korea²⁶⁴, *polished incidence: 8/20*, conc. range: tr–4100 μg/kg, Ø conc.: 2637 μg/kg, country: USA³⁴⁸, *unpolished

351 Rice

incidence: 24/60*, conc. range: 4–144 μg/kg, Ø conc.: 41.2 μg/kg, country: Korea³⁷⁴, *polished

see also arepas, asparagus, barley, batter, beans, beer, bran (maize), bread, cake (rice), cereals, cereals (breakfast), chamomile, chips (maize), chips (tortilla), flakes (corn), flour (maize), food, food (baby), foodstuff, grits (maize), Incaparina, leaves, maize, maize fiber, maize muffin, maize products, maize silk, maize starch, masa, meal (maize), meal (sorghum), milk, muffin mix, nuts (peanut), pancake, popcorn, rapoko, snacks, sorghum, soybeans, syrup (sorghum), tea, tortillas, wheat

Fumonisin B₂

incidence: 5–6/20*, conc. range: 700–1200 µg/kg, country: USA³⁴⁸, *unpolished see also arepas, asparagus, barley, batter, beer, bran (maize), cereals, cereals (breakfast), chips (maize), chips (tortilla), flakes (corn), flour (maize), food (baby), foodstuff, grits (maize), Incaparina, maize, maize fiber, maize starch, masa, meal (maize), muffin mix, pancake, popcorn, snacks, tortillas, wheat

Fumonisin B₃

incidence: 4–5/20*, conc. range: 500–600 µg/kg, country: USA³⁴⁸, *unpolished see also barley, cereal products, cereals, flour (maize), food (baby), Incaparina, maize, meal (maize), pancake, popcorn, snacks

Fumonisins (B_1, B_2)

incidence: 1/4* **, conc.: 28 μg/kg, country: UK⁷³², *basmati, **imported see also beer, flour (maize), food (infant), maize, meal (maize), noodles, spice powder, spices (chilli pickle), spices (curry), spices (curry paste), spices (curry powder), spices (tandoori)

NIVALENOL

Japan⁵³⁰, *ncac

incidence: 5/88*, conc. range: 182–462 μg/kg, Ø conc.: 352 μg/kg, country: Korea²⁶⁴, *polished incidence: 2/9*, Ø conc.: 22 μg/kg, country:

incidence: 2/9* **, Ø conc.: 22 μg/kg, country: Japan⁵³⁸, *from Nepal, **ncac incidence: 1/1* ** ***, conc.: 63 µg/kg, country: Papua, New Guinea⁵⁷⁴, *from Australia, **brown trukai, ***ncac incidence: ?/4* **, conc. range: 4-11 µg/kg, country: UK732, *basmati, **imported see also barley, beer, biscuits, bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, germ (wheat), grits (maize), grits (wheat), Job's-tears, maize, malt (barley), meal (millet), millet, noodles, oat products, oats, rye, snacks, sorghum, soybeans, spices (chilli sauce), spices (curry), spices (curry paste), spices (curry powder), spices (garlic), spices (ginger), spices (tandoori), wheat

OCHRATOXIN A

incidence: 5/64* **, conc. range: 4.3–27.3 μg/kg, Ø conc.: 13.4 μg/kg, country: Spain²⁴⁹, *and rice products, **non–organic incidence: 6/20* **, conc. range: 1–7.3 μg/kg, country: Spain²⁴⁹, *and rice products, **organic

incidence: 2/25, conc. range: 21.3–26.2 μg/kg, Ø conc.: 23.8 μg/kg, country: Vietnam²⁵⁴ incidence: 8/88*, conc. range: 2.1–6 μg/kg, Ø conc.: 3.9 μg/kg, country: Korea²⁶⁴, *polished

incidence: 10/10, conc. range: 0.16–0.92 μ g/kg, \varnothing conc.: 0.51 μ g/kg, country: Côte d'Ivoire⁵⁵⁷

incidence: 5/60*, conc. range: 0.9–6 µg/kg, \varnothing conc.: 1 µg/kg, country: Korea⁵⁹⁹, *polished incidence: 2/36, conc. range: 0.3 µg/kg, \varnothing conc.: 0.3 µg/kg, country: Germany⁶⁴⁰ incidence: 10/10, conc. range: 9–92 µg/kg, country: Côte d'Ivoire⁶⁴²

incidence: 6/42, conc. range: 0.09–3.52 μ g/kg, country: Portugal⁶⁵²

incidence: $4/22^*$, conc. range: $\leq 0.28 \mu g/kg$, \varnothing conc.: $0.109 \mu g/kg$, country: Germany⁶⁹⁰, *brown

incidence: 5/33, conc. range: 10.1–30 μ g/kg, \varnothing conc.: 15.8 μ g/kg, country: Egypt⁷²¹

Rice 352

incidence: 2/2*, conc. range: 230–430 µg/kg, \varnothing conc.: 330 µg/kg, country: Japan⁷⁴⁷, *brown

incidence: 2/30*, conc. range: pr, country: India⁷⁸⁴, *ncac

incidence: 2/32*, conc. range: 8–25 μg/kg, Ø conc.: 16.5 μg/kg, country: India⁷⁸⁹, *broken

incidence: 18/20, conc. range: 0.02-32.4 µg/kg, \varnothing conc.: 4.15 µg/kg, country:

Morocco⁸⁵⁹ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape),

pulses, pumpernickel, ragi, raisins, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

DIACETOXYSCIRPENOL

incidence: 5/242, conc. range: 108–640 μg/kg, Ø conc.: 328 μg/kg, country: Egypt²⁸⁸ see also beans, beer, bran (wheat), cereals, maize, nuts (peanut), oats, products, soybeans, spices (chilli powder), spices (curry), wheat

Sterigmatocystin

incidence: 1/242, conc.: nc, country: Egypt²⁸⁸ incidence: 2/2*, conc. range: 50–450 μg/kg, Ø conc.: 250 μg/kg, country: Japan⁷⁴⁷, *brown

incidence: 3/30*, conc. range: 108–157 μg/kg, country: India⁷⁸⁴, *ncac incidence: 12/37*, conc. range: ≤16,300 μg/kg, country: Japan⁸⁵⁰, *ncac see also barley, cassava, cheese, coffee, maize, nuts (almond), nuts (pecan), nuts (pistachio), oil seed rape, spices, spices (fennel), spices (pepper), wheat

TENUAZONIC ACID

incidence: 2/10, conc. range: ≤172.8 µg/kg, country: Egypt²⁹¹ see also bran, cassava, fruits (mandarin fruit), maize, olives, pulp (tomato), ragi, sorghum, spices (pepper), sunflower seeds, tomato purée, tomatoes, wheat

T-2 Toxin

incidence: 3/242, conc. range: 96–310 μg/kg, Ø conc.: 206.7 μg/kg, country: Egypt²⁸⁸ 353 Rolls

incidence: 1/26, conc.: 19 μg/kg, country: Germany⁵¹⁷

incidence: ?/4* **, conc. range: \leq 49 µg/kg, country: UK⁷³², *Chinese, **imported incidence: 1/32*, conc.: 25 µg/kg, country: India⁷⁸⁹, *broken

see also barley, beans, beer, bran (oat), bran (wheat), bread, cereals, cereals (breakfast), flakes (oat), flour, flour (maize), flour (wheat), food, grits (maize), maize, nuts (hazelnut), nuts (peanut), oat products, oats, rye, sorghum, spices (curry), spices (ginger), spices (tandoori), sunflower seeds, wheat

ZEARALENONE

incidence: 3/88*, conc. range: 21.7–47 μg/kg, Ø conc.: 38.5 μg/kg, country: Korea²⁶⁴, *polished

incidence: 5/242, conc. range: ? μg/kg, country: Egypt²⁸⁸

incidence: 1/4, conc.: 12 μg/kg, country:

USA⁴²⁴

incidence: 1/9*, conc.: 8 μg/kg, country:

Japan⁵³⁰, *ncac incidence: 1/9* **, conc.: 8 μg/kg, country: Japan⁵³⁸, *from Nepal, **ncac

incidence: 10/10, conc. range: 50–200 μg/kg, Ø conc.: 80 μg/kg, country: Côte d'Ivoire⁵⁵⁷ incidence: 1/1* ** ***, conc.: 3060 μg/kg, country: Papua, New Guinea⁵⁷⁴, *from Australia, **brown trukai, ***ncac incidence: ?/4*, conc. range: 5.2–16.2 μg/kg,

country: UK⁷³², *basmati incidence: 3/42*, conc. range: >200 μg/kg (3 sa), country: Uruguay⁷⁸⁷, *ncac see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese,

flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum,

popcorn, products, pumpkin seeds, rye,

crackers, flakes (corn), flour, flour (barley),

sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Rice bran

see Bran (rice)

Rice cake

see Cake (rice)

Rice snack

see Snacks

Roe deer

see Kidney (roe deer) as well as Liver (roe deer)

Rolls may contain the following mycotoxins:

OCHRATOXIN A

incidence: 1/16, conc. range: 0.1–0.19 $\mu g/kg$, country: Germany⁶²³

incidence: 1/3* **, conc.: 0.1 µg/kg, country: Germany⁶⁴⁰, *whole meal, **and baked goods incidence: 79/89*, conc. range: ≤0.524 µg/kg, Ø conc.: 0.09 µg/kg, country: Germany⁶⁹⁰, *milk & water

incidence: $31/31^*$, conc. range: $\leq 0.773 \,\mu g/kg$, \varnothing conc.: $0.169 \,\mu g/kg$, country: Germany⁶⁹⁰, *wholemeal

incidence: 48/49*, conc. range: \leq 5.542 µg/kg, \varnothing conc.: 0.357 µg/kg, country: Germany⁶⁹⁰, *multigrain

incidence: 37/38*, conc. range: \leq 0.441 µg/kg, \varnothing conc.: 0.16 µg/kg, country: Germany⁶⁹⁰, *rve

see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa,

Rolls 354

copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Rolled porridge oats

see Porridge

Romadur cheese

see Cheese

Roquefort cheese

see Cheese (blue)

Rosé wine

see Wine

Rusk may contained the following mycotoxins:

OCHRATOXIN A

incidence: 32/37*, conc. range: <2.26 µg/kg, country: Germany⁵⁹² incidence: 6/9, conc. range: 0.1-0.19 µg/kg (3 sa), 0.2-0.49 μg/kg (2 sa), 0.50-1.49 μg/kg (1 sa), country: Germany⁶²³ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts

355 Rye

(cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Rye may contain the following mycotoxins:

Deoxynivalenol

incidence: 14/46*, conc. range: ≤102 µg/kg, Ø conc.: 54 μg/kg, country: Lithuania²⁰³, *ncac

incidence: 3/6, conc. range: 5-100 µg/kg,

country: Finland²¹⁹

incidence: 17/135* **, conc. range: ≤3090 µg/kg, Ø conc.: 490 μg/kg, country:

Germany⁴⁴¹, *cg, **ncac

incidence: 2/19* **, conc. range: 120-130

µg/kg, Ø conc.: 125 μg/kg, country:

Germany⁴⁴¹, *og, **ncac

incidence: 24/31, conc. range: 9-93 µg/kg, Ø conc.: 52 μg/kg, country: Finland⁴⁵⁵ incidence: 9/10*, conc. range: 10-47 µg/kg, Ø conc.: 31 μg/kg, country: Finland⁴⁵⁵, *from

Germany, Hungary, Soviet Union, Sweden, USA

incidence: 1/5*, conc.: 3 µg/kg, country:

Korea⁴⁶⁹, *for food and feed

incidence: $20/50^*$ **, conc. range: ≤ 1250

µg/kg, Ø conc.: 160 μg/kg, country:

Germany⁴⁹⁹, *cg, **ncac

incidence: $28/50^*$ **, conc. range: ≤ 500 $\mu g/kg$, \varnothing conc.: 427 $\mu g/kg$, country: Germany⁴⁹⁹, *eg, **ncac incidence: 10/30*, Ø conc.: 183 μg/kg, country: Japan⁵³⁰, *ncac incidence: 4/4* **, conc. range: 8-384 µg/kg, Ø conc.: 106 μg/kg, country: Japan⁵³⁶, *from The Netherlands, **ncac incidence: 1/1* **, conc.: 204 µg/kg, country: Japan⁵³⁷, *from Canada, **ncac incidence: 4/22* **, Ø conc.: 406 μg/kg, country: Japan⁵³⁸, *from Germany, **ncac incidence: 4/7* **, conc. range: 31-86 μg/kg, Ø conc.: 53.5 μg/kg, country: Germany⁵⁶², *and unknown origin, **o incidence: 38/43, conc. range: 5-50 µg/kg $(34 \text{ sa}), 50-100 \mu\text{g/kg} (3 \text{ sa}), >100 \mu\text{g/kg}$ (1 sa), country: Finland⁷⁶⁵ see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic),

3-ACETYLDEOXYNIVALENOL

spices (ginger), wheat

incidence: 4/31, conc.: 15–38 µg/kg, Ø conc.: 24 μg/kg, country: Finland⁴⁵⁵ see also barley, bread, cereals, cereals (breakfast), flakes (oat), flour (maize), flour (wheat), food, food (baby), grits (maize), maize, oat products, oats, rice, snacks, wheat

ENNIATIN A₁ incidence: 1/1*, conc.: tr, country: Finland⁴⁵⁹, see also barley, oats, wheat

Rye 356

Enniatin B

incidence: 1/1*, conc.: 47 μg/kg, country:

Finland⁴⁵⁹, *ncac

see also barley, oats, wheat

ENNIATIN B₁

incidence: 1/1*, conc.: tr, country: Finland⁴⁵⁹,

*ncac

see also barley, oats, wheat

HT-2 Toxin

incidence: 12/46*, conc. range: <353 µg/kg, Ø conc.: 61 μg/kg, country: Lithuania²⁰³,

incidence: 1/31, conc.: 23 µg/kg, country:

Finland⁴⁵⁵

see also barley, bran (oat), bran (wheat), bread, cereal (baby), cereals, cereals (breakfast), flakes (oat), flour (maize), flour (wheat), food, food (baby), germ (wheat), grits (maize), groats (oat), maize, noodles, nuts (hazelnut), oat products, oats, pumpkin seeds, spices (chilli powder), spices (curry), sunflower seeds, wheat

Moniliformin

incidence: 3/3* ** ***, conc. range: 6100–12,300 µg/kg, Ø conc.: 9030 µg/kg, Poland⁵²⁴, *Fdk, **from Poland, ***ncac see also barley, corn on the cob, flakes (corn), flour (maize), foodstuff, grits (maize), maize, maize-based thickeners, meal (maize), oats, popcorn, snacks, triticale, wheat

Nivalenol

incidence: 1/46*, conc.: 20 µg/kg, country: Lithuania²⁰³, *ncac

incidence: 1/31, conc.: 33 µg/kg, Finland⁴⁵⁵ incidence: 5/5*, conc. range: 46-114 μg/kg, Ø conc.: 83 μg/kg, country: Korea⁴⁶⁹, *for food and feed

incidence: 3/17*, conc. range: 200-410 µg/kg,

country: Canada⁵²¹, *ncac

incidence: $10/30^*$, \varnothing conc.: 47 µg/kg,

country: Japan⁵³⁰, *ncac

incidence: 3/4* **, conc. range: 10-34 µg/kg, Ø conc.: 21 μg/kg, country: Japan⁵³⁶, *from The Netherlands, **ncac

incidence: 1/1* **, conc.: 8 µg/kg, country: Japan⁵³⁷, *from Canada, **ncac

incidence: 4/22* **, Ø conc.: 12 μg/kg, country: Japan⁵³⁸, *from Germany, **ncac incidence: 2/2*, conc. range: 6.7-17.3 µg/kg, Ø conc.: 12 μg/kg, country: Japan⁸⁴³, *imported

see also barley, beer, biscuits, bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, germ (wheat), grits (maize), grits (wheat), Job's-tears, maize, malt (barley), meal (millet), millet, noodles, oat products, oats, rice, snacks, sorghum, soybeans, spices (chilli sauce), spices (curry), spices (curry paste), spices (curry powder), spices (garlic), spices (ginger), spices (tandoori), wheat

OCHRATOXIN A

incidence: 6/10, conc. range: ≤1.7 µg/kg, \varnothing conc.: 0.5 µg/kg, country: Germany²⁴⁴ incidence: 257/405*, conc. range: ≤63 µg/kg, Ø conc.: 0.9 μg/kg**, country: Denmark²⁶⁵, *cg, **arithmetic mean incidence: 14/17*, conc. range: ≤45 µg/kg,

Ø conc.: 3.9 μg/kg**, country: Denmark²⁶⁵, *og, **arithmetic mean

incidence: 3/52* **, conc. range: 0.82-2.5

 μ g/kg, \varnothing conc.: 1.38 μ g/kg**, country: Poland⁵⁸⁷, *c, **ncac

incidence: 18/48* **, conc. range: 0.21-10 μ g/kg, \varnothing conc.: 3.17 μ g/kg**, country: Poland⁵⁸⁷, *o, **ncac

incidence: 4/37* **, conc. range: 4.73-8.8 µg/kg, Ø conc.: 6.75 µg/kg**, country: Poland⁵⁸⁸, *c, **ncac

incidence: 5/46* **, conc. range: 2-35.3 $\mu g/kg$, \varnothing conc.: 14.5 $\mu g/kg^{**}$, country: Poland⁵⁸⁸, *o, **ncac

incidence: 177/503*, conc. range: 0.05-4.9 μg/kg (157 sa), 5-25 μg/kg (16 sa), >25 μg/kg (4 sa, with a maximum of 121 μg/kg), Ø conc.: 1.2 µg/kg**, country: Denmark⁶²⁵, *cg, **arithmetic mean

incidence: 71/91*, conc. range: 0.05-4.9 μg/kg (55 sa), 5-25 μg/kg (12 sa), >25 μg/kg (4 sa, with a maximum of 120 μg/kg), Ø conc.: 5.4 μg/kg**, country: Denmark⁶²⁵, *eg, **arithmetic mean

357 Rye

incidence: 8/22* **, conc. range: 0.05-4.9 μg/kg (8 sa, with a maximum of 0.7 μg/kg), Ø conc.: 0.1 μg/kg***, country: Denmark⁶²⁵, *imported, **cg, ***arithmetic mean incidence: 4/45, conc. range: 0.4-4.7 µg/kg, country: Germany⁶⁴⁰ incidence: 14/37, conc. range: <0.8 µg/kg, Ø conc.: 0.113 μg/kg, country: Germany⁶⁹⁰ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts

(cashew), nuts (coconut), nuts (hazelnut),

nuts (peanut), nuts (peanut butter), nuts

(sesame), olives, pasta, pastries, peas, pig

blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork,

snacks, sorghum, soybeans, spelt, spice

pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls,

rusk, sandwich, sauce, sausages, sesame seeds,

(pistachio), nuts (walnut), oats, oil (olive), oil

powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

T-2 Toxin

incidence: 1/46*, conc.: 52 μg/kg, country: Lithuania²⁰³, *ncac incidence: 1/31, conc.: 17 μg/kg, country: Finland⁴⁵⁵ see also barley, beans, beer, bran (oat), bran (wheat), bread, cereals, cereals (breakfast), flakes (oat), flour, flour (maize), flour (wheat), food, grits (maize), maize, nuts (hazelnut), nuts (peanut), oat products, oats, rice, sorghum, spices (curry), spices (ginger), spices (tandoori), sunflower seeds, wheat

Zearalenone

incidence: 3/5*, conc. range: 3-4 µg/kg, Ø conc.: 3.3 μg/kg, country: Korea⁴⁶⁹, *for food and feed incidence: 9/50* **, conc. range: <7 µg/kg, Ø conc.: 4 μg/kg, country: Germany⁴⁹⁹, *cg, **ncac incidence: 5/50* **, conc. range: <199 µg/kg, Ø conc.: 51 μg/kg, country: Germany⁴⁹⁹, *eg, **ncac incidence: $4/30^*$, \varnothing conc.: 22 µg/kg, country: Japan⁵³⁰, *ncac incidence: 1/4* **, conc.: 11 μg/kg, country: Japan⁵³⁶, *from The Netherlands, **ncac incidence: 1/1* **, conc.: 2 μg/kg, country: Japan⁵³⁷, *from Canada, **ncac incidence: 3/22* **, Ø conc.: 5 μg/kg, country: Japan⁵³⁸, *from Germany, **ncac incidence: 2/7* **, conc. range: 5.9-7.1 μg/kg, Ø conc.: 6.5 μg/kg, country: Germany⁵⁶², *and unknown origin, **o see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran

(wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Saffron

see Spices (saffron)

Sago may contain the following mycotoxins:

Aflatoxins (B_1, B_2, G_1, G_2) incidence: 2/65, Ø conc.: 150 µg/kg, max. conc.: 294 µg/kg, country: Thailand163 see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (figs), peas, phane, poppadoms, rice, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

Salami

see Sausages (salami)

Samsoe cheese

see Cheese

Sandwich may contain the following mycotoxins:

OCHRATOXIN A

incidence: 31/33*, conc. range: ≤0.27 µg/kg, country: Germany⁵⁹², *nut nougat creme see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape),

359 Sauce (leaf)

pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

incidence: $2/15^*$ **, conc. range: $\leq 0.25 \mu g / l$,

country: Germany⁶³⁹, *and imported?, **soja-

Sauce may contain the following mycotoxins:

OCHRATOXIN A

and herbal-

incidence: $7/50^*$ **, conc. range: $\leq 0.72 \mu g / l$, country: Germany⁶³⁹, *and imported?, **pepper- and barbecuesee also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice

(grape), juice (tomato), kidney (pig), kidney

(poultry), knäckebröd, lentils, linseeds,

liqourice, liqourice root, liver (cow), liver

(duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Sauce (leaf) may contain the following mycotoxins:

AFLATOXINS

incidence: 3/3, conc. range: 21–34 μg/kg, Ø conc.: 27 μg/kg, country: The Gambia⁷² see also beans, candy (peanut), candy (pistachio), cassava, figs, flour (maize), grain mixtures, grains, maize, maize dough, maize products, melon seeds, millet, nuts, nuts (almond), nuts (brazil), nuts (peanut), nuts (peanut butter), nuts (peanut mix), nuts (peanut products), nuts (pecan), nuts (pistachio), nuts (walnut), nuts and seeds, paste (peanut), paste (pipian), peas, rice, snacks, sorghum, spices, spices (chilli), spices (cumin), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper), spices (tandoori), teff, tubers, wheat

Sauce (peanut) 360

Sauce (peanut) may contain the following mycotoxins:

Aflatoxins (B_1, B_2, G_1, G_2) incidence: 18/20, conc. range: 19-943 µg/kg, Ø conc.: 162 μg/kg, country: The Gambia⁷² see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (figs), peas, phane, poppadoms, rice, sago, sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

Sausages may contain the following mycotoxins:

AFLATOXIN B₁

incidence: 1/25, conc.: 7 μg/kg, country: Egypt¹⁴

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver

(pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olive, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂

incidence: 1/25, conc.: 3 μg/kg, country: Egypt¹⁴

see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew),

361 Sausages

nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

OCHRATOXIN A

incidence: $1/12^*$, conc.: $\leq 0.06 \,\mu\text{g/kg}$, country: Italy³²², *Würstel incidence: 4/12* **, conc. range: ≤0.08 μg/kg, Ø conc.: 0.06 μg/kg, country: Italy³²², *dry-cured, **salami incidence: 1/12*, conc.: 0.8 µg/kg, country: Switzerland⁵⁷⁸, *scalding incidence: $36/53^*$, conc. range: $\leq 4.56 \,\mu g/kg$, country: Germany⁵⁹⁸, *liver-type incidence: $44/57^*$, conc. range: $\leq 3.16 \mu g/kg$, country: Germany⁵⁹⁸, *blood incidence: 21/45*, conc. range: ≤0.38 µg/kg, country: Germany⁵⁹⁸, *Bologna-type incidence: 28/56*, conc. range: ≤0.27 µg/kg, country: Germany⁵⁹⁸, *raw incidence: 5/31*, conc. range: ≤0.19 µg/kg, country: Germany⁵⁹⁸, *beef incidence: 7/40*, conc. range: ≤0.03 µg/kg, country: Germany⁵⁹⁸, *poultry see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour

(rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

ZEARALENONE

incidence: 5/20, conc. range: 2.1–8.9 μg/kg, Ø conc.: 6.3 μg/kg, country: Egypt⁴⁴³ see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food

Sausages 362

(infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Salami

see Sausages

Savoury snacks

see Snacks

Semolina

see Grits as well as Grits (maize)

Sesame oil

see Oil (sesame)

Sesame products may contain the following mycotoxins:

AFLATOXIN B₁

incidence: 5/130, conc. range: 1 μg/kg, country: Cyprus⁷⁴

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils,

linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meiu, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olive, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Sesame seeds may contain the following mycotoxins:

AFLATOXIN B₁ incidence: 4*/19, conc. range: 4–10 μg/kg, country: Germany⁶⁷, *moldy incidence: 4/211, conc. range: 2 μg/kg, country: Cyprus⁷⁴ incidence: 2/19, conc. range: 0.6–2.4 μg/kg, \varnothing conc.: 1.5 μg/kg, country: Japan⁹⁹ see also acha, areca nut, bacon, barley, beans,

beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix 363 Sesame seeds

seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olive, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B_2 incidence: 2/19, conc. range: 0.2–0.5 μg/kg, \varnothing conc.: 0.4 μg/kg, country: Japan⁹⁹ see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals

(breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Aflatoxin G₁ incidence: 4/211, conc. range: <0.4 µg/kg, country: Cyprus⁷⁴ see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian

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cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

Aflatoxin G_2

incidence: 4/211, conc. range: <0.3 μg/kg, country: Cyprus⁷⁴

see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, raisins, rice, shoyu, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

Aflatoxins (B_1, B_2, G_1, G_2) incidence: 3/75, max. conc.: <10 µg/kg, country: Thailand¹⁶³ see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (figs), peas, phane, poppadoms, rice, sago, sauce (peanut), snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

OCHRATOXIN A

incidence: 9/24, conc. range: <0.86 µg/kg, country: Germany⁵⁹² see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, ligourice, ligourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic

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pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

ZEARALENONE

incidence: 2/7* **, Ø con.: 10 μg/kg, country: Japan⁵³⁸, *from Yemen, **ncac see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Sherry

see Wine

Shiro may contain the following mycotoxins:

Aflatoxin B₁

incidence: 5/60, conc. range: 100–500 μg/kg, Ø conc.: 271 μg/kg, country: Ethiopia⁵³ see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olive, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Shoyu may contain the following mycotoxins:

AFLATOXIN G₂ incidence: 1/149, conc.: nc, country:

Taiwan⁸²³

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see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, raisins, rice, sesame seeds, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

Singkamas

see Tubers

Snack foods

see Snacks

Snack products

Aflatoxin B_1

see Snacks

Snacks may contain the following mycotoxins:

incidence: 2/11*, conc. range: 1.3-2 µg/kg, Ø conc.: 1.7 μg/kg, country: Colombia²⁹⁶, *and breakfast cereals see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple),

kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olive, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXINS (B₁, B₂, G₁, G₂) incidence: 15/60*, conc. range: 50–100 μg/kg, country: Egypt³⁸⁶, *maize–based see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (figs), peas, phane, poppadoms, rice, sago, sauce

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(peanut), sesame seeds, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

AFLATOXINS

incidence: 4*/40, conc. range: 10–40 µg/kg, country: Nigeria⁸⁵⁷, *all sa contained AFB₁; 2 sa additionally AFB₂ and / or AFG₁, *melon balls

see also beans, candy (peanut), candy (pistachio), cassava, figs, flour (maize), grain mixtures, grains, maize, maize dough, maize products, melon seeds, millet, nuts, nuts (almond), nuts (brazil), nuts (peanut), nuts (peanut butter), nuts (peanut mix), nuts (peanut products), nuts (pecan), nuts (pistachio), nuts (walnut), nuts and seeds, paste (peanut), paste (pipian), peas, rice, sauce (leaf), sorghum, spices, spices (chilli), spices (cumin), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper), spices (tandoori), teff, tubers, wheat

Deoxynivalenol

incidence: 16/22*, conc. range: ≤450 µg/kg, country: USA⁵⁴⁵, *wheat-based incidence: 14/21, conc. range: <500 µg/kg, country: USA⁵⁶¹ incidence: 36/40, conc. range: 10-100 µg/kg (18 sa), 101-250 μg/kg (4 sa), 251-500 μg/kg (4 sa), 501–750 μg/kg (9 sa), 879 μg/kg (1 sa), country: UK836 incidence: 37/44*, conc. range: 10-25 µg/kg (12 sa), 25.1–50 μg/kg (5 sa), 50.1–75 μg/kg (1 sa), 75.1–100 μg/kg (1 sa), 100.1–250 μg/kg (17 sa), 275 μg/kg (1 sa), country: UK⁸³⁶, *products see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize),

flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

3-ACETYLDEOXYNIVALENOL incidence: 4/40, conc. range: 11–15 μg/kg, country: UK⁸³⁶ see also barley, bread, cereals, cereals (breakfast), flakes (oat), flour (maize), flour (wheat), food, food (baby), grits (maize), maize, oat products, oats, rice, rye, wheat

15-Acetyldeoxynivalenol

incidence: 18/40, conc. range: 10–100 µg/kg (10 sa), 101–250 µg/kg (8 sa, with a maximum of 214 µg/kg), country: UK⁸³⁶ incidence: 15/44*, conc. range: 10–25 µg/kg (2 sa), 25.1–50 µg/kg (11 sa), 50.1–75 µg/kg (2 sa, with a maximum of 59 µg/kg), country: UK⁸³⁶, *products see also barley, bran (oat), bran (wheat), cereals (breakfast), flour (maize), flour (wheat), food, grits (maize), maize, noodles, oat products, oats, wheat

Fumonisin B₁ incidence: 19/30*, conc. range: 3–438 μg/kg, Ø conc.: 17 μg/kg, country: Korea³⁷⁴, *rice-based incidence: 10/14*, conc. range: 25.8–188 μg/kg, Ø conc.: 52.7 μg/kg, country: Korea³⁷⁵, *maize-based incidence: 2/15* **, conc. range: 350–370 μg/kg, Ø conc.: 360 μg/kg, country: Turkey³⁸¹, *maize-based, **partly imported incidence: 6/10, conc. range: 2–65 μg/kg, country: Denmark³⁸⁵, *maize-based incidence: 2/5*, conc. range: 152–314 μg/kg, Ø conc.: 233 μg/kg, country: Uruguay³⁹⁹, *maize-based

Snacks 368

incidence: 2/11*, conc. range: 50–200 μg/kg, Ø conc.: 125 μg/kg, country: Spain⁴⁰⁴, *maize-based incidence: 26/78, conc. range: ≤2395 μg/kg, Ø conc.: 455.5 μg/kg, country: Taiwan⁴¹⁸ incidence: 14/39*, conc. range: 16.4–135.6 μg/kg, country: Spain⁴²¹, *maize-based incidence: 2/6*, conc. range: 24–127 μg/kg, Ø conc.: 76 μg/kg, country: Colombia⁶⁷², *maize-based

see also arepas, asparagus, barley, batter, beans, beer, bran (maize), bread, cake (rice), cereals, cereals (breakfast), chamomile, chips (maize), chips (tortilla), flakes (corn), flour (maize), food, food (baby), foodstuff, grits (maize), Incaparina, leaves, maize, maize fiber, maize muffin, maize products, maize silk, maize starch, masa, meal (maize), meal (sorghum), milk, muffin mix, nuts (peanut), pancake, popcorn, rapoko, rice, sorghum, soybeans, syrup (sorghum), tea, tortillas, wheat

Fumonisin B₂

incidence: 3/10, conc. range: 4–8 μg/kg, country: Denmark³85, *maize–based incidence: 16/78, conc. range: ≤715 μg/kg, Ø conc.: 145.3 μg/kg, country: Taiwan⁴18 incidence: 1/6*, conc.: 73 μg/kg, country: Colombia⁶⁷², *maize–based see also arepas, asparagus, barley, batter, beer, bran (maize), cereals, cereals (breakfast), chips (maize), chips (tortilla), flakes (corn), flour (maize), food (baby), foodstuff, grits (maize), Incaparina, maize, maize fiber, maize starch, masa, meal (maize), muffin mix, pancake, popcorn, rice, tortillas, wheat

FUMONISIN B₃

incidence: 1/40*, conc.: 104.44 µg/kg, country: USA²³⁵, *maize–based see also barley, cereal products, cereals, flour (maize), food (baby), Incaparina, maize, meal (maize), pancake, popcorn, rice

Fumonisins (B₁, B₂, B₃) incidence: 31/40*, conc. range: 11–220 μg/kg, country: UK³⁸³, *maize–based see also bran (maize), cereals (breakfast), flour, flour (maize), germ (maize), grains,

grits (maize), maize, maize–based thickeners, popcorn, tortillas

Moniliformin

incidence: 7/43, conc. range: <15–32 μg/kg, country: UK⁷⁴³ see also barley, corn on the cob, flakes (corn), flour (maize), foodstuff, grits (maize),maize, maize–based thickeners, meal (maize), oats, popcorn, rye, triticale, wheat

Nivalenol

incidence: 17/40, conc. range: 12–43 μ g/kg, country: UK⁸³⁶

incidence: 10/44*, conc. range: 10–25 μg/kg (9 sa), 58 μg/kg (1 sa), country: UK⁸³⁶, *products

see also barley, beer, biscuits, bran (wheat), bread, cake, cereal (baby), cereals,cereals (breakfast), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, germ (wheat), grits (maize), grits (wheat), Job's-tears, maize, malt (barley), meal (millet), millet, noodles, oat products, oats, rice, rye, sorghum, soybeans, spices (chilli sauce), spices (curry), spices (curry paste), spices (curry powder), spices (garlic), spices (ginger), spices (tandoori), wheat

OCHRATOXIN A

incidence: $28/32^*$, conc. range: $\leq 0.11 \, \mu g/kg$, country: Germany⁵⁹², *bar incidence: $40/47^*$, conc. range: $\leq 3.6 \,\mu g/kg$, country: Germany⁵⁹², *nut bar incidence: 39/67*, conc. range: ≤1.72 µg/kg, country: Germany⁵⁹², *muesli bar incidence: 4/11*, conc. range: 0.1-0.19 µg/kg (3 sa), 0.2-0.49 μg/kg (1 sa), country: Germany⁶²³, *and flips see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal),

flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

ZEARALENONE

incidence: 1/9, conc.: 2.9 μg/kg, country: USA⁸³¹

incidence: 15/40, conc. range: 8–25 μg/kg (1 sa), 25.1–50 μg/kg (7 sa), 50.1–75 μg/kg (4 sa), 75.1–100 μg/kg (3 sa, with a maximum of 99 μg/kg), country: UK⁸³⁶

incidence: 13/44*, conc. range: 10-25 µg/kg (11 sa), 25.1–50 μg/kg (1 sa), 55.8 μg/kg (1 sa), country: UK836, *products see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Soft drinks

see Drink

Soja- and herbal sauce

see Sauce

Sorghum may contain the following mycotoxins:

AFLATOXIN B₁

incidence: 2/6, conc. range: 30–35 μg/kg,

country: Tunisia²⁰

incidence: 9/44*, conc. range: 0.18–30.3

μg/kg, country: India¹⁹², *ncac

incidence: 24/25*, conc. range: 2–830 μg/kg,

country: India¹⁹², *ncac, rain–affected incidence: 10?/10*, conc. range: ≤100 μg/kg,

country: India³¹³, *discolored

incidence: 20/20*, conc. range: tr-163 μg/kg,

country: India⁷²⁰, *ah

incidence: ?/5*, conc. range: tr-80 μg/kg,

country: India720, *nah

incidence: 4/150, conc. range: 20–60 µg/kg,

country: India⁷⁸⁸

incidence: 7/20, conc. range: 20–480 μg/kg, country: India⁷⁸⁹

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olive, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne),

spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxin B_2

incidence: 3/20, conc. range: 10–125 μg/kg, country: India⁷⁸⁹

country: India789 see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

AFLATOXINS (B₁, B₂, G₁, G₂) incidence: 4/197*, conc. range: 6–54 μ g/kg, \varnothing conc.: 19.3 μ g/kg, country: USA⁸⁰⁹, *ncac incidence: 3/19*, conc. range: 0.1–64 μ g/kg, \varnothing conc.: 0.8 μ g/kg, country: Botswana⁸¹³, *and meal

see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts

(pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (figs), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

incidence: 26*?/69, conc. range: 1-100 µg/kg

AFLATOXINS

(19 sa), 100–1000 μg/kg (5 sa), >1000 μg/kg (5 sa), country: Uganda⁵, *16 sa contained AFB₁, 11 AFB₂, 13 AFG₁, 1 AFG₂ incidence: 2/8, conc. range: 2-16 µg/kg, Ø conc.: 9 μg/kg, country: The Gambia⁷² incidence: 11/81*, conc. range: 9-20 μg/kg (6 sa), 21–30 μg/kg (4 sa), 31–39 μg/kg (1 sa), \varnothing conc.: 21.9 µg/kg, country: Ethiopia¹⁰⁷, *mixed incidence: 12/81*?, conc. range: 9-20 μg/kg (5 sa), 21-30 μg/kg (5 sa), 31-39 μg/kg (2 sa), \varnothing conc.: 24 µg/kg, country: Ethiopia¹⁰⁷, *white see also beans, candy (peanut), candy (pistachio), cassava, figs, flour (maize), grain mixtures, grains, maize, maize dough, maize products, melon seeds, millet, nuts, nuts (almond), nuts (brazil), nuts (peanut), nuts (peanut butter), nuts (peanut mix), nuts (peanut products), nuts (pecan), nuts (pistachio), nuts (walnut), nuts and seeds, paste (peanut), paste (pipian), peas, rice, sauce (leaf), snacks, spices, spices (chilli), spices (cumin), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper), spices (tandoori), teff, tubers, wheat

ALTENUENE

incidence: 5/20*, conc. range: 20–700 μg/kg, Ø conc.: 264 μg/kg, country: India³³⁷, *ncac see also barley, fruits (apple), maize, olives, ragi, rice, tomatoes, wheat Alternariol Methyl Ether incidence: 7/20*, conc.: 600–1800 μg/kg, Ø conc.: 1012 μg/kg, country: India³³⁷, *ncac see also barley, bran, fruits (apple), fruits (mandarin fruit), fruits (melon), juice (apple, concentrate), olives, ragi, spices (pepper), sunflower seeds, tomatoes, wheat

ALTERTOXIN-I

incidence: 2/15, conc. range: \leq 185 µg/kg, country: Egypt²⁹¹ see also fruits (apple), wheat

Deoxynivalenol

incidence: 1/7*, conc.: 50 μg/kg, country: Saudi Arabia³²⁵, *ncac see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

Fumonisin B₁

incidence: 2/44*, conc. range: 150–500 μg/kg, Ø conc.: 325 μg/kg, country: India¹⁹², *ncac incidence: 25/25* **, conc. range: 70–7800 μg/kg, country: India¹⁹², *ncac, **rain–affected incidence: 5/5, conc. range: 200–1400 μg/kg, Ø conc.: 560 μg/kg, country: Zimbabwe³⁶⁵ incidence: 20/20*, conc. range: 140–7800 μg/kg, country: India⁷²⁰, *ah incidence: ?/5*, conc. range: 70–360 μg/kg, country: India⁷²⁰, *nah see also arepas, asparagus, barley, batter, beans, beer, bran (maize), bread, cake (rice), cereals, cereals (breakfast), chamomile, chips (maize), chips (tortilla), flakes (corn), flour

(maize), food, food (baby), foodstuff, grits (maize), Incaparina, leaves, maize, maize fiber, maize muffin, maize products, maize silk, maize starch, masa, meal (maize), meal (sorghum), milk, muffin mix, nuts (peanut), pancake, popcorn, rapoko, rice, snacks, soybeans, syrup (sorghum), tea, tortillas, wheat

FUMONISINS

incidence: 3/20*, conc. range: 20–60 µg/kg, Ø conc.: 43 µg/kg, country: Botswana⁸¹³, *and meal

see also beer, bread, cereal (infant), chips (tortilla), flakes (corn), flour (maize), grits (maize), maize, maize pops cereal, maize products, maize starch, maize (infant cream corn), meal (maize), muffin mix, pasta, popcorn, porridge, products, tortillas

Neosolaniol

incidence: 1/7*, conc.: 25 µg/kg, country: Saudi Arabia³²⁵, *ncac see also cereals (breakfast), maize, oat products, spices (curry), spices (ginger), wheat

Nivalenol

incidence: 1/11*, conc.: 91 μg/kg, country: Japan⁵³⁰, *ncac

incidence: 1/5* **, con.: 100 μg/kg, country: Japan⁵³⁸, *from Yemen, **ncac see also barley, beer, biscuits, bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, germ (wheat), grits (maize), grits (wheat), Job's-tears, maize, malt (barley), meal (millet), millet, noodles, oat products, oats, rice, rye, snacks, soybeans, spices (chilli sauce), spices (curry), spices (curry paste), spices (curry powder), spices (garlic), spices (ginger), spices (tandoori), wheat

Ochratoxin A

incidence: 3/24, conc. range: $50-70 \mu g/kg$, \varnothing conc.: $63.3 \mu g/kg$, country: India⁶⁵⁶ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat,

butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

TENUAZONIC ACID

incidence: 3/15, conc. range: <125 µg/kg,

country: Egypt²⁹¹

incidence: 5/20*, conc. range: 1300-5600 μg/kg, Ø conc.: 3380 μg/kg, country: India³³⁷,

*ncac

see also bran, cassava, fruits (mandarin fruit), maize, olives, pulp (tomato), ragi, rice, spices (pepper), sunflower seeds, tomato purée, tomatoes, wheat

T-2 Toxin

incidence: 4/84*, conc. range: 1670-15,000 μg/kg, Ø conc.: 11,240 μg/kg, country:

India⁴³¹, *ncac

incidence: 2/20, conc. range: 10-45 µg/kg, Ø conc.: 27.5 μg/kg, country: India⁷⁸⁹ see also barley, beans, beer, bran (oat), bran (wheat), bread, cereals, cereals (breakfast), flakes (oat), flour, flour (maize), flour (wheat), food, grits (maize), maize, nuts (hazelnut), nuts (peanut), oat products, oats, rice, rye, spices (curry), spices (ginger), spices (tandoori), sunflower seeds, wheat

ZEARALENONE

incidence: 6/6*, conc. range: 760-4500 µg/kg, country: Portugal⁴⁵¹, *ncac

incidence: 1/11*, conc.: 100 μg/kg, country:

Japan⁵³⁰, *ncac

incidence: 1/11* **, con.: 100 μg/kg, country: Japan⁵³⁸, *from Yemen, **ncac

incidence: 56/197*, conc. range: 200-6900

μg/kg, country: USA⁸⁰⁹, *ncac see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, soybeans,

spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Sorahum beer

see Beer

Sorghum meal

see Meal (sorghum)

Sorghum syrup

see Syrup (sorghum)

Sour cherry juice

see Juice (cherry)

Soybeans may contain the following mycotoxins:

AFLATOXIN B₁

incidence: 12/260, conc. range: 1-10 µg/kg (1 sa), >50–100 µg/kg (11 sa), country:

Cuba⁴⁷

incidence: 1/1*, conc.: 77.5 µg/kg, country: UK⁷⁰, *ncac

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal

(cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olive, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxin B₂

incidence: 1/1*, conc.: 16 μg/kg, country: UK⁷⁰, *ncac

see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts

(pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli) powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Aflatoxin G_1

incidence: 1/1*, conc.: 8.1 μg/kg, country: UK⁷⁰, *ncac

see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

AFLATOXIN G₂

incidence: 1/1*, conc.: 2.75 μg/kg, country: UK⁷⁰, *ncac

see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts

(coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, raisins, rice, sesame seeds, shoyu, spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

Deoxynivalenol

incidence: 1/3* **, conc.: 36 µ/kg, country: Papua, New Guinea⁵⁷⁴, *from Australia, **ncac

incidence: 12/24* **, conc. range: 50–490 μg/kg, Ø conc.: 215 μg/kg, country: USA⁷⁷², *discounted or refused by grain merchants, **ncac

see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger), wheat

Fumonisin B₁

incidence: 1/1*, conc.: 8700 μg/kg, country: Spain³⁵⁵, *ncac

see also arepas, asparagus, barley, batter, beans, beer, bran (maize), bread, cake (rice), cereals, cereals (breakfast), chamomile, chips (maize), chips (tortilla), flakes (corn), flour (maize), food, food (baby), foodstuff, grits (maize), Incaparina, leaves, maize, maize fiber, maize muffin, maize products, maize silk, maize starch, masa, meal (maize), meal

(sorghum), milk, muffin mix, nuts (peanut), pancake, popcorn, rapoko, rice, snacks, sorghum, syrup (sorghum), tea, tortillas, wheat

Nivalenol

incidence: 1/3* **, conc.: 50 μg/kg, country: Papua, New Guinea⁵⁷⁴, *from Australia, **ncac

incidence: $3/9^*$, conc. range: $8.7-12 \mu g/kg$, \varnothing conc.: $10.6 \mu g/kg$, country: Japan⁸⁴³, *imported

see also barley, beer, biscuits, bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, germ (wheat), grits (maize), grits (wheat), Job's-tears, maize, malt (barley), meal (millet), millet, noodles, oat products, oats, rice, rye, snacks, sorghum, spices (chilli sauce), spices (curry), spices (curry paste), spices (curry powder), spices (garlic), spices (ginger), spices (tandoori), wheat

OCHRATOXIN A

incidence: 26/31, conc. range: \leq 0.1 µg/kg, Ø conc.: 0.059 μg/kg, country: Germany⁶⁹⁰ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds,

liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

DIACETOXYSCIRPENOL

incidence: 5/20* **, conc. range: 15–230 μg/kg, Ø conc.: 77 μg/kg, country: USA⁷⁷², *discounted or refused by grain merchants, **ncac

see also beans, beer, bran (wheat), cereals, maize, nuts (peanut), oats, products, rice, spices (chilli powder), spices (curry), wheat

T-2 Tetraol (Primarily HT-2) incidence: 17/24* **, conc. range: 20–1070 μg/kg, Ø conc.: 180 μg/kg, country: USA⁷⁷², *discounted or refused by grain merchants, **ncac

see also barley, bran (wheat), maize, wheat

ZEARALENONE

incidence: $6/97^*$, conc. range: 5–39 µg/kg, country: Canada⁵²¹, *and soy foods

incidence: 19/24* **, conc. range: 80–1720 μg/kg, Ø conc.: 476 μg/kg, country: USA⁷⁷², *discounted or refused by grain merchants, **ncac

incidence: 2/17*, conc. range: >200 μg/kg (2 sa), country: Uruguay⁷⁸⁷, *ncac see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Soybean paste

see Paste (soybean)

Soy sauce

see Shoyu

Sparkling wine

see Wine

Special wine

see Wine

Spelt may contain the following mycotoxins:

OCHRATOXIN A

incidence: 1/22*, conc.: 0.9 μg/kg, country: Germany⁶⁴⁰, *common see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat,

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butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Spelt whole meal see Meal (spelt)

Spice powder may contain the following mycotoxins:

Aflatoxins (B_1, B_2, G_1, G_2) incidence: 1/4*, conc.: 0.9 µg/kg, country: UK⁷³², *imported see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (figs), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

Fumonisins (B₁, B₂) incidence: ?/4* **, conc. range: 13–17 μg/kg, country: UK⁷³², *imported see also beer, flour (maize), food (infant), maize, meal (maize), noodles, rice, spices (chilli pickle), spices (curry), spices (curry paste), spices (curry powder), spices (tandoori)

OCHRATOXIN A

incidence: 1/4*, conc.: 2.6 μg/kg, country: UK⁷³², *imported see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa,

Spice powder 378

copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

ZEARALENONE

incidence: : ?/4*, conc. range: 3.2–5.2 µg/kg, country: UK⁷³², *imported see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran

(wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Spices may contain the following mycotoxins:

AFLATOXIN B₁

incidence: 1/6, conc.: <0.4 μg/kg, country: Cyprus⁷⁴

incidence: $16/78^*$, conc. range: $0-1.9 \mu g/kg$, \varnothing conc.: $0.8 \mu g/kg$, country: Japan⁹⁹, *mixed incidence: 4/10, conc. range: $10-46 \mu g/kg$, \varnothing conc.: $25 \mu g/kg$, country: Egypt¹⁶² incidence: 5/37, conc. range: $0.2-0.8 \mu g/kg$, country: Japan¹⁸⁴

incidence: 2/5* **, conc. range: 0.16-0.91 µg/kg, Ø conc.: 0.54 μg/kg, country: Hungary²⁵², *mixture, ** imported incidence: 1*/50**, conc.: 5.1 μg/kg, country: The Netherlands³⁰⁵, *bay leaf, **imported see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs

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and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olive, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂

incidence: 16/78*, conc. range: 0–0.4 μg/kg, Ø conc.: <0.1 μg/kg, country: Japan⁹⁹, *mixed incidence: 1/37, conc.: 0.2 μg/kg, country: Japan¹⁸⁴ incidence: 1/5* **, conc.: 0.25 μg/kg, country:

incidence: 1/5* **, conc.: 0.25 μg/kg, country: Hungary²⁵², *mixture, ** imported see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram),

flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

AFLATOXIN G₁

incidence: 16/78*, conc. range: 0-0.5 µg/kg, Ø conc.: <0.1 μg/kg, country: Japan⁹⁹, *mixed see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper),

Spices 380

spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

AFLATOXINS (B₁, B₂) incidence: 16/120, conc. range: 8–35 μ g/kg, country: Egypt⁷⁶⁴ see also flour (maize), maize, meal (protein supplement), millet, rice

Aflatoxins

incidence: 5/16*, conc. range: 0.1-5 µg/kg (3 sa), 6–10 μ g/kg (1 sa), >50 μ g/kg (1 sa), country: Malaysia³⁹¹, *chilly powder etc. see also beans, candy (peanut), candy (pistachio), cassava, figs, flour (maize), grain mixtures, grains, maize, maize dough, maize products, melon seeds, millet, nuts, nuts (almond), nuts (brazil), nuts (peanut), nuts (peanut butter), nuts (peanut mix), nuts (peanut products), nuts (pecan), nuts (pistachio), nuts (walnut), nuts and seeds, paste (peanut), paste (pipian), peas, rice, sauce (leaf), snacks, sorghum, spices (chilli), spices (cumin), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper), spices (tandoori), teff, tubers, wheat

CITRININ

incidence: 2/120, conc. range: 8–12 μg/kg, Ø conc.: 10 μg/kg, country: Egypt⁷⁶⁴ see also angkak (red mold rice), barley, cereals, cheese, food, food colorant, fruits (apple), maize, maize dough, meal (copra), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), oil seed rape, olives, rice, spices (cardamom), spices (coriander), spices (cumin), spices (fennel), spices (pepper), spices (turmeric), wheat

Sterigmatocystin

incidence: 6/120, conc. range: 10–23 μg/kg, country: Egypt⁷⁶⁴ see also barley, cassava, cheese, coffee, maize, nuts (almond), nuts (pecan), nuts (pistachio), oil seed rape, rice, spices (fennel), spices (pepper), wheat

Spices (ammi) may contain the following mycotoxins:

AFLATOXIN B₁ incidence: 1/7, conc.: 60 μg/kg, country: India⁸⁰³

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olive, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika),

381 Spices (cardamom)

spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂

incidence: 1/7, conc.: 34 μ g/kg, country: India⁸⁰³

see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Aflatoxin G_1

incidence: 1/7, conc.: 32 μg/kg, country: India⁸⁰³

see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts

(coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

Spices (cardamom) may contain the following mycotoxins:

Aflatoxin B₁

incidence: 1/6, conc.: 20 μ g/kg, country: India⁸⁰³

incidence: 3?/6*, conc. range: 18-129 µg/kg, country: India⁸⁰³, *greater see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts

Spices (cardamom) 382

(almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olive, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxin B₂

incidence: 1/6, conc.: 15 μg/kg, country: India⁸⁰³ incidence: 3?/6*, conc. range: 14-108 μg/kg, country: India⁸⁰³, *greater see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi),

spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Aflatoxin G₁

incidence: 1/6, conc.: 12 µg/kg, country: India⁸⁰³ incidence: 3?/6, conc. range: 17-78 µg/kg, country. India⁸⁰³, *greater see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

Aflatoxin G_2

incidence: 3?/6*, conc. range: 5–76 µg/kg, country. India⁸⁰³, *greater see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products),

nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

CITRININ

incidence: 1/6, conc.: 25 μg/kg, country: India⁸⁰³

see also angkak (red mold rice), barley, cereals, cheese, food, food colorant, fruits (apple), maize, maize dough, meal (copra), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), oil seed rape, olives, rice, spices, spices (coriander), spices (cumin), spices (fennel), spices (pepper), spices (turmeric), wheat

OCHRATOXIN A

incidence: 1/6*, conc.: pr, country: India⁸⁰³, *greater

see

also barley, beans,

beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver

(turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Spices (chilli) may contain the following mycotoxins:

Aflatoxin B₁

incidence: 107/182 conc. range: \leq 969 µg/kg, country: India¹⁴⁹

incidence: 2/2*, conc. range: 2.5–2.7 μg/kg, Ø conc.: 2.6 μg/kg, country: Denmark¹⁹³, *imported

incidence: 2/5*, conc. range: 0.75–8.1 μg/kg, Ø conc.: 4.43 μg/kg, country: Hungary²⁵², *imported

incidence: 11/22* **, conc. range: 8.4–24 µg/kg, country: Germany⁷⁷⁵, * and cayenne, **imported

incidence: 4?/9, conc. range: 15–146 μg/kg, country: India⁸⁰³

incidence: 28/31*, conc. range: 0.6–13.9 µg/kg, country: UK⁸³⁹, *from different countries

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olive, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxin B₂

incidence: 2/2*, conc. range: 1.7–2.2 μg/kg, Ø conc.: 2 μg/kg, country: Denmark¹⁹³, *imported

incidence: 1/5*, conc.: 0.71 μg/kg, country: Hungary²⁵², *imported

incidence: 4?/9, conc. range: 11–88 μg/kg, country: India⁸⁰³

country: India⁸⁰³ incidence: 10/31*, conc. range: 0.2-0.7 μg/kg, country: UK⁸³⁹, *from different countries see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Aflatoxin G₁

incidence: 2/2*, conc. range: 0.6–1.2 μg/kg, Ø conc.: 0.9 μg/kg, country: Denmark¹⁹³, *imported

incidence: 4?/9, conc. range: 8–58 μg/kg, country: India⁸⁰³

incidence: 3/31*, conc. range: 0.2–1.1 µg/kg, country: UK⁸³⁹, *from different countries see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast),

cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

Aflatoxin G_2

incidence: 2/2*, conc. range: 0.7–1 μg/kg, Ø conc.: 0.9 μg/kg, country: Denmark¹⁹³, *imported incidence: 4?/9, conc. range: 6–40 μg/kg,

country: India⁸⁰³

incidence: 2/31*, conc. range: 0.3–0.4 μg/kg, Ø conc.: 0.35 μg/kg, country: UK⁸³⁹, *from different countries

different countries see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

AFLATOXINS (B_1 , B_2 , G_1 , G_2) incidence: $18/50^*$, conc. range: $1-1.9 \mu g/kg$ (2 sa), $2-3.9 \mu g/kg$ (5 sa), $4-10 \mu g/kg$ (2 sa), $10-50 \mu g/kg$ (9 sa), country: UK^{122} , *imported

incidence: 9/14*, conc. range: 1–1.9 µg/kg (2 sa), 2–3.9 µg/kg (3 sa), 4–10 µg/kg (1 sa), 10–50 µg/kg (2 sa), >50 µg/kg (1 sa), country: UK 122 , *imported, port sa incidence: 12/106*, Ø conc.: 125 µg/kg, max. conc.: 966 µg/kg, country: Thailand 163 , *peppers

incidence: 13/33*, conc. range: 1-10 µg/kg (6 sa), $>10 \mu g/kg$ (7 sa, with a maximum of 47.5 μg/kg), country: UK⁷²⁸, *imported see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (figs), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

Aflatoxins

incidence: 9/12*, conc. range: \leq 30 µg/kg, \varnothing conc.: 10 µg/kg, country: USA¹⁹⁷, *imported

see also beans, candy (peanut), candy (pistachio), cassava, figs, flour (maize), grain mixtures, grains, maize, maize dough, maize products, melon seeds, millet, nuts, nuts (almond), nuts (brazil), nuts (peanut), nuts (peanut butter), nuts (peanut mix), nuts (peanut products), nuts (pecan), nuts (pistachio), nuts (walnut), nuts and seeds, paste (peanut), paste (pipian), peas, rice, sauce (leaf), snacks, sorghum, spices, spices

(cumin), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper), spices (tandoori), teff, tubers, wheat

OCHRATOXIN A

incidence: 1/5*, conc.: 2.1 μg/kg, country: Hungary²⁵², *imported incidence: 26/100, conc. range: 10–29 μg/kg (12 sa), 30–49 μg/kg (10 sa), 50–100 μg/kg (3 sa), 120 μg/kg (1 sa), country: India⁶⁸⁴ incidence: 31/31*, conc. range: 0.3–47.7 μg/kg, country: UK⁸³⁹, *from different countries

see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork,

pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

ZEARALENONE

incidence: 1/9, conc.: pr, country: India⁸⁰³ see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Spices (chilli pickle) may contain the following mycotoxins:

AFLATOXINS (B₁, B₂, G₁, G₂) incidence: ?/4*, conc. range: 1–58.5 μ g/kg, country: UK⁷³², *imported see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices,

lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (figs), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

Fumonisins (B_1 , B_2) incidence: $1/4^*$, conc.: 121 µg/kg, country: UK⁷³², *imported see also beer, flour (maize), food (infant), maize, meal (maize), noodles, rice, spice powder, spices (curry), spices (curry paste), spices (curry powder), spices (tandoori)

OCHRATOXIN A

incidence: ?/4* conc. range: 0.5-1.2 µg/kg, country: UK732, *imported see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney

(poultry), knäckebröd, lentils, linseeds, ligourice, ligourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Spices (chilli powder) may contain the following mycotoxins:

Aflatoxin B₁

incidence: 6/6*, conc. range: tr–6 μg/kg, country: Canada¹⁶⁰, *from India see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs

and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olive, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂ incidence: 2/6*, conc. range: tr, country: Canada¹⁶⁰, *from India see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog,

Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

AFLATOXIN G₁

incidence: 3/6*, conc. range: tr-3 μg/kg, country: Canada160, *from India see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

Aflatoxins (B_1, B_2, G_1, G_2) incidence: ?/4*, conc. range: 1.1-5.4 µg/kg, country: UK732, *imported see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (figs), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

Deoxynivalenol

incidence: 1/4*, conc.: 8 µg/kg, country: UK732, *imported see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (coriander), spices (garlic), spices (ginger), wheat

HT-2 Toxin

incidence: 1/4*, conc.: 24 μg/kg, country: UK⁷³², *imported see also barley, bran (oat), bran (wheat), bread, cereal (baby), cereals, cereals (breakfast), flakes (oat), flour (maize), flour

(wheat), food, food (baby), germ (wheat), grits (maize), groats (oat), maize, noodles, nuts (hazelnut), oat products, oats, pumpkin seeds, pumpkin seeds, rye, spices (curry), sunflower seeds, wheat

OCHRATOXIN A

incidence: ?/4*, conc. range: 1.6-50.4 µg/kg, country: UK732, *imported see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice

powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

DIACETOXYSCIRPENOL

incidence: ?/4*, conc. range: 47–81 μg/kg, country: UK⁷³², *imported see also beans, beer, bran (wheat), cereals, maize, nuts (peanut), oats, products, rice, soybeans, spices (curry), wheat

ZEARALENONE

incidence: ?/4*, conc. range: 4.5-15.4 µg/kg, country: UK732, *imported see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Spices (chilli sauce) may contain the following mycotoxins:

Nivalenol

incidence: 1/4, conc.: 15 μg/kg, country: UK⁷³², *imported

see also barley, beer, biscuits, bran (wheat), bread, cake, cereal (baby), cereals,cereals (breakfast), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, germ (wheat), grits (maize), grits (wheat), Job's-tears, maize, malt (barley), meal (millet), millet, noodles, oat products, oats, rice, rye, snacks, sorghum, soybeans, spices (curry), spices (curry paste), spices (curry powder), spices (garlic), spices (ginger), spices (tandoori), wheat

OCHRATOXIN A

incidence: 1/4*, conc.: 3.3 μg/kg, country: UK⁷³², *imported see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, ligourice, ligourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig

391 Spices (coriander)

blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Zearalenone

incidence: 1/4*, conc.: 7.1 μg/kg, country: UK⁷³², *imported

see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Spices (coriander) may contain the following mycotoxins:

AFLATOXIN B₁ incidence: 2/15, conc. range: 8 μg/kg, country: Egypt¹⁴

incidence: 3/10, conc. range: 19–37 µg/kg, \varnothing conc.: 25.7 µg/kg, country: India¹³⁰ incidence: 1*/9, conc.: 45.5 µg/kg, country: Canada¹⁵⁹, *from Morocco incidence: 2/12*, conc. range: \le 5.2 µg/kg, country: Germany⁷⁷⁵, *imported incidence: 6?/9, conc. range: 25–230 µg/kg, country: India⁸⁰³

AFLATOXIN B₂ incidence: 1/10, conc.: 5 µg/kg, country: India¹³⁰ incidence: 1*/9, conc.: 16 µg/kg, country: Canada¹⁵⁹, *from Morocco incidence: 6?/9, conc. range: 20-72 µg/kg, country: India⁸⁰³ see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (cilli powder), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

AFLATOXIN G_1 incidence: 2/15, conc. range: 2 μ g/kg, country: Egypt¹⁴ incidence: 3/10, conc. range: 3–4 μ g/kg, \varnothing conc.: 3.7 μ g/kg, country: India¹³⁰

Spices (coriander) 392

incidence: 6?/9, conc. range: 13-40 µg/kg, country: India803 see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

AFLATOXIN G₂

incidence: 6?/9, conc. range: 14–35 μg/kg, country: India⁸⁰³

see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom), spices (chilli), spices (cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

Aflatoxins (B₁, B₂, G₁, G₂) incidence: 1/3, conc.: 0.7 μ g/kg, country: UK⁷³²

see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (figs), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

CITRININ

incidence: 1/9, conc.: 34 μg/kg, country: India⁸⁰³

see also angkak (red mold rice), barley, cereals, cheese, food, food colorant, fruits (apple), maize, maize dough, meal (copra), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), oil seed rape, olives, rice, spices, spices (cardamom), spices (cumin), spices (fennel), spices (pepper), spices (turmeric), wheat

Deoxynivalenol

incidence: 1/3*, conc.: 21 μg/kg, country: UK⁷³², *imported see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks,

393 Spices (cumin)

sorghum, soybeans, spices (chilli powder), spices (garlic), spices (ginger), wheat

incidence: 20/50, conc. range: 10-29 µg/kg

OCHRATOXIN A

(16 sa), 30-49 µg/kg (3 sa), 50-100 µg/kg (1 sa), country: India³³³ incidence: 1/3*, conc.: 4 µg/kg, country: UK⁷³², *imported incidence: 1/9, conc.: pr, country: India⁸⁰³ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame

seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

ZEARALENONE

incidence: ?/3*, conc. range: 3.6-6.7 µg/kg, country: UK⁷³², *imported incidence: 1/9, conc.: pr, country: India⁸⁰³ see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (sauce), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Spices (cumin) may contain the following mycotoxins:

AFLATOXIN B₁

incidence: 3/7*, conc. range: 1.25–2.3 μg/kg, Ø conc.: 1.85 μg/kg, country: Portugal¹²⁵, *imported?

incidence: $2/20^*$, conc. range: 0.29–0.96 µg/kg, \varnothing conc.: 0.625 µg/kg, country: Egypt¹⁹⁹ incidence: 2/8, conc. range: 24–104 µg/kg, \varnothing conc.: 64 µg/kg, country: India⁸⁰³

Spices (cumin) 394

incidence: 8/14, conc. range: ≤0.08 µg/kg, Ø conc.: 0.03 μg/kg, country: Morocco⁸⁶⁶ see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olive, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices

(saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂

incidence: 2/8, conc. range: 12-78 µg/kg, Ø conc.: 45 μg/kg, country: India⁸⁰³ see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (cilli powder), spices (coriander), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Aflatoxin G₁

incidence: 2/8, conc. range: 8–45 μg/kg, Ø conc.: 26.5 μg/kg, country: India⁸⁰³ see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), 395 Spices (curry)

nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

Aflatoxin G₂

incidence: 1/8, conc.: 30 μ g/kg, country: India⁸⁰³

see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

Aflatoxins

incidence: 8/14, conc. range: ≤0.18 μg/kg, Ø conc.: 0.05 μg/kg, country: Morocco⁸⁶⁶ see also beans, candy (peanut), candy (pistachio), cassava, figs, flour (maize), grain mixtures, grains, maize, maize dough, maize products, melon seeds, millet, nuts, nuts (almond), nuts (brazil), nuts (peanut), nuts (peanut butter), nuts (peanut mix), nuts (peanut products), nuts (peanut mix), nuts (pistachio), nuts (walnut), nuts and seeds, paste (peanut), paste (pipian), peas, rice, sauce (leaf), snacks, sorghum, spices, spices (chilli), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper), spices (tandoori), teff, tubers, wheat

CITRININ

incidence: 1/8, conc.: 22 μg/kg, country: India⁸⁰³ see also angkak (red mold rice), barley, cereals, cheese, food, food colorant, fruits (apple), maize, maize dough, meal (copra), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), oil seed rape, olives, rice, spices, spices (cardamom), spices (coriander), spices (fennel), spices (pepper), spices (turmeric), wheat

Spices (curry) may contain the following mycotoxins:

AFLATOXIN B₁

incidence: 2/5* **, conc. range: 1.75-2.5 $\mu g/kg$, \varnothing conc.: 2.13 $\mu g/kg$, country: Portugal¹²⁵, *imported?, **powder see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts

Spices (curry) 396

(coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olive, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxins (B_1, B_2, G_1, G_2) incidence: 10/29*, conc. range: 1-1.9 µg/kg (6 sa), 2-3.9 µg/kg (2 sa), 4-10 µg/kg (2 sa), country: UK122, *imported see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (figs), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

Fumonisins (B₁, B₂) incidence: $1/3^*$ *****, conc.: 230 µg/kg, country: UK⁷³², *dry, **mixes, ***imported

see also beer, flour (maize), food (infant), maize, meal (maize), noodles, rice, spice powder, spices (chilli pickle), spices (curry paste), spices (curry powder), spices (tandoori)

Fusarenon X incidence: $1/3^*$ ***, conc.: 7 µg/kg, country: UK⁷³², *dry, **mixes, ***imported

country: UK⁷³², *dry, **mixes, ***imported see also cereals (breakfast), flour (maize), food, maize, oat products, spices (garlic)

HT-2 Toxin

incidence: 1/3* ** ***, conc.: 17 µg/kg, country: UK⁷³², *dry, **mixes, ***imported see also barley, bran (oat), bran (wheat), bread, cereal (baby), cereals, cereals (breakfast), flakes (oat), flour (maize), flour (wheat), food, food (baby), germ (wheat), grits (maize), groats (oat), maize, noodles, nuts (hazelnut), oat products, oats, pumpkin seeds, pumpkin seeds, rye, spices (chilli powder), sunflower seeds, wheat

Neosolaniol

incidence: 1/3* ** ***, conc.: 9 μg/kg, country: UK⁷³², *dry, **mixes, ***imported see also cereals (breakfast), maize, oat products, sorghum, spices (ginger), wheat

Nivalenol

incidence: 1/3* ** ***, conc.: 14 µg/kg, country: UK⁷³², *dry, **mixes, ***imported see also barley, beer, biscuits, bran (wheat), bread, cake, cereal (baby), cereals,cereals (breakfast), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, germ (wheat), grits (maize), grits (wheat), Job's-tears, maize, malt (barley), meal (millet), millet, noodles, oat products, oats, rice, rye, snacks, sorghum, soybeans, spices (chilli sauce), spices (curry paste), spices (curry powder), spices (garlic), spices (ginger), spices (tandoori), wheat

OCHRATOXIN A

incidence: ?/3* ** ***, conc. range: 1.2–5.4 µg/kg, country: UK⁷³², *dry, **mixes, ***imported see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley),

397 Spices (curry paste)

bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

DIACETOXYSCIRPENOL

incidence: 1/3* ** ***, conc.: 25 µg/kg, country: UK⁷³², *dry, **mixes, ***imported see also beans, beer, bran (wheat), cereals, maize, nuts (peanut), oats, products, rice, soybeans, spices (chilli powder), wheat

T-2 Toxin

incidence: 1/3* ** ****, conc.: 13 μg/kg, country: UK⁷³², *dry, **mixes, ***imported see also barley, beans, beer, bran (oat), bran (wheat), bread, cereals, cereals (breakfast), flakes (oat), flour, flour (maize), flour (wheat), food, grits (maize), maize, nuts (hazelnut), nuts (peanut), oat products, oats, rice, rye, sorghum, spices (ginger), spices (tandoori), sunflower seeds, wheat

Zearalenone

incidence: 1/3* ** ***, conc.: 5.2 μg/kg, country: UK732, *dry, **mixes, ***imported see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (sauce), spices (coriander), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Spices (curry paste) may contain the following mycotoxins:

AFLATOXINS (B₁, B₂, G₁, G₂) incidence: $1/4^*$, conc.: 1.2 µg/kg, country: UK⁷³², *imported

Spices (curry paste) 398

see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (figs), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

Fumonisins (B_1 , B_2) incidence: 1/4*, conc.: 56 µg/kg, country: UK⁷³², *imported see also beer, flour (maize), food (infant), maize, meal (maize), noodles, rice, spice powder, spices (chilli pickle), spices (curry), spices (curry powder), spices (tandoori)

Nivalenol

incidence: ?/4, conc. range: 5–16 μg/kg, country: UK⁷³², *imported see also barley, beer, biscuits, bran (wheat), bread, cake, cereal (baby), cereals,cereals (breakfast), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, germ (wheat), grits (maize), grits (wheat), Job's-tears, maize, malt (barley), meal (millet), millet, noodles, oat products, oats, rice, rye, snacks, sorghum, soybeans, spices (chilli sauce), spices (curry), spices (curry powder), spices (garlic), spices (ginger), spices (tandoori), wheat

OCHRATOXIN A

incidence: ?/4*, conc. range: 0.6–15.5 μg/kg, country: UK⁷³², *imported see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat,

butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

399 Spices (curry powder)

Zearalenone

incidence: ?/4, conc. range: 3.1-4.2 µg/kg, country: UK732, *imported see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rve), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (sauce), spices (coriander), spices (curry), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Spices (curry powder) may contain the following mycotoxins:

Aflatoxins (B_1, B_2, G_1, G_2) incidence: 10/29*, conc. range: 1-10 µg/kg (10 sa, with a maximum of 5.2 µg/kg), country: UK728, *imported incidence: ?/3* **, conc. range: 0.8–61.2 μg/kg, country: UK⁷³², *hot, **imported incidence: 1/3* **, conc.: 0.4 μg/kg, country: UK⁷³², *mild, **imported see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (figs), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices

(coriander), spices (curry), spices (curry paste), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

Fumonisins (B₁, B₂) incidence: ?/3* **, conc. range: 15–16 μg/kg, country: UK⁷³², *hot, **imported incidence: 1/3* **, conc.: 21 μg/kg, country: UK⁷³², *mild, **imported see also beer, flour (maize), food (infant), maize, meal (maize), noodles, rice, spice powder, spices (chilli pickle), spices (curry), spices (curry paste), spices (tandoori)

Nivalenol

incidence: ?/3* **, conc. range: 15–50 μg/kg, country: UK⁷³², *hot, **imported incidence: ?/3* **, conc. range: 9–67 μg/kg, country: UK⁷³², *mild, **imported see also barley, beer, biscuits, bran (wheat), bread, cake, cereal (baby), cereals,cereals (breakfast), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, germ (wheat), grits (maize), grits (wheat), Job's-tears, maize, malt (barley), meal (millet), millet, noodles, oat products, oats, rice, rye, snacks, sorghum, soybeans, spices (chilli sauce), spices (curry), spices (curry paste), spices (garlic), spices (ginger), spices (tandoori), wheat

OCHRATOXIN A

incidence: ?/3* **, conc. range: 2.3–21.3 µg/kg, country: UK⁷³², *hot, **imported incidence: ?/3* **, conc. range: 1.8–9.4 µg/kg, country: UK⁷³², *mild, **imported see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal),

Spices (curry powder) 400

flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Zearalenone

incidence: ?/3* **, conc. range: 1.2–10.8 µg/kg, country: UK⁷³², *hot, **imported see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley),

flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (sauce), spices (coriander), spices (curry), spices (curry paste), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Spices (fennel) may contain the following mycotoxins:

AFLATOXIN B₁ incidence: 6?/9, conc. range: 30–275 μg/kg, country: India⁸⁰³ see also acha, areca nut, bacon, barley, bear

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts

401 Spices (fennel)

(almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olive, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂

incidence: 6?/9, conc. range: $28-173 \mu g/kg$, country. India⁸⁰³

see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (cilli powder), spices (coriander), spices (cumin),

spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Aflatoxin G₁

incidence: 6?/9, conc. range: 15–76 μg/kg, country: India⁸⁰³

see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

AFLATOXIN G₂

incidence: 6?/9, conc. range: 9–69 μg/kg, country: India⁸⁰³

see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom), spices (chilli), spices

Spices (fennel) 402

(coriander), spices (cumin), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

Aflatoxins (B_1, B_2, G_1, G_2) incidence: 1/3, conc.: 1.2 μ g/kg, country: IJK^{732}

see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (figs), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

CITRININ

incidence: 2/9, conc. range: 28–59 μg/kg, Ø conc.: 43.5 μg/kg, country: India⁸⁰³ see also angkak (red mold rice), barley, cereals, cheese, food, food colorant, fruits (apple), maize, maize dough, meal (copra), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), oil seed rape, olives, rice, spices, spices (cardamom), spices (coriander), spices (cumin), spices (pepper), spices (turmeric), wheat

OCHRATOXIN A

incidence: 1/9, conc.: pr, country: India⁸⁰³ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa

powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Sterigmatocystin

incidence: 1/9, conc.: 142 μg/kg, country: India⁸⁰³

403 Spices (fenugreek)

see also barley, cassava, cheese, coffee, maize, nuts (almond), nuts (pecan), nuts (pistachio), oil seed rape, rice, spices, spices (pepper), wheat

ZEARALENONE

incidence: 1/3*, conc.: 7 μg/kg, country: UK⁷³², *imported see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rve), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables, wheat

Spices (fenugreek) may contain the following mycotoxins:

AFLATOXIN B₁

incidence: 3/6, conc. range: 2–4.3 μg/kg, country: Egypt⁶²

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina,

jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olive, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂

incidence: 2/6, conc. range: 2.5–3 μg/kg, country: Egypt⁶² see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize

Spices (fenugreek) 404

products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (cilli powder), spices (coriander), spices (cumin), spices (fennel), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

AFLATOXIN G₁

incidence: 1/6, conc.: 1.8 μg/kg, country: Egypt⁶²

see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

AFLATOXINS (B₁, B₂, G₁, G₂) incidence: $1/2^*$, conc.: 2.5 µg/kg, country: UK⁷²⁸, *imported

see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (figs), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

Spices (garlic) may contain the following mycotoxins:

Aflatoxin B_1

incidence: 1/6, conc.: 12 μg/kg, country: India⁸⁰³

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk

405 Spices (garlic)

products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olive, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂

incidence: 1/6, conc.: 15 μg/kg, country: India⁸⁰³

see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds,

sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (cilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Aflatoxin G₁

incidence: 1/6, conc.: 10 μg/kg, country: India⁸⁰³

see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

Deoxynivalenol

incidence: $1/4^*$ conc.: 14 µg/kg, country: UK^{732}

see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats

Spices (garlic) 406

(oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (ginger), wheat

Fusarenon X

incidence: 1/4*, conc.: 5 μg/kg, country: UK^{732}

see also cereals (breakfast), flour (maize), food, maize, oat products, spices (curry)

NIVALENOL

incidence: 1/4*, conc.: 21 μg/kg, country: UK^{732}

see also barley, beer, biscuits, bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, germ (wheat), grits (maize), grits (wheat), Job's-tears, maize, malt (barley), meal (millet), millet, noodles, oat products, oats, rice, rye, snacks, sorghum, soybeans, spices (chilli sauce), spices (curry), spices (curry paste), spices (curry powder), spices (ginger), spices (tandoori), wheat

Spices (garlic pickle) may contain the following mycotoxins:

Aflatoxins (B_1, B_2, G_1, G_2) incidence: ?/4*, conc. range: 0.2-0.6 µg/kg, country: UK732, *imported see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (figs), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry

paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

OCHRATOXIN A

incidence: ?/4*, conc.: 0.9–2.5 µg/kg, country: UK⁷³², *imported see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice

powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

ZEARALENONE

incidence: 1/4*, conc.: 3.8 µg/kg, country: UK⁷³², *imported see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (pepper), sunflower seeds, vegetables, wheat

Spices (garlic/onions) may contain the following mycotoxins:

AFLATOXINS (B₁, B₂, G₁, G₂) incidence: 2/58, \varnothing conc.: 67 μ g/kg? max. conc.: 60? μ g/kg, country: Thailand¹⁶³ see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts

(peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (figs), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

Spices (ginger) may contain the following mycotoxins:

Aflatoxin B_1

incidence: 3/5*, conc. range: 1.4-6.5 µg/kg, Ø conc.: 4 μg/kg, country: USA¹¹, *imported incidence: 8/15, conc.: tr $-\approx$ 25 µg/kg, country: Canada¹⁵⁹, *imported incidence: 10/12, conc. range: $\leq 3.5 \,\mu g/kg$, \varnothing conc.: 0.63 µg/kg, country: Morocco⁸⁶⁶ see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep),

millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olive, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂ incidence: 2/5*, conc. range: 0.2 μg/kg, Ø conc.: 0.2 μg/kg, country: USA¹¹, *imported incidence: 7/15, conc.: tr-15 μg/kg, country: Canada¹⁵⁹, *imported see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (cilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

AFLATOXIN G₁ incidence: 1/5*, conc.: 2.5 μg/kg, country: USA¹¹, *imported incidence: 3/15, conc.: tr-15 μg/kg, country: Canada¹⁵⁹, *imported see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

AFLATOXIN G₂ incidence: 1/5*, conc.: 0.2 μg/kg, country: USA¹¹, *imported incidence: 2/15, conc.: tr–4 μg/kg, country: Canada¹⁵⁹, *imported see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel,

maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

Aflatoxins (B_1, B_2, G_1, G_2) incidence: 3/8*, conc. range: 1-10 μg/kg (3 sa, with a maximum of 8.4 μg/kg), country: UK728, *imported incidence: ?/4*, conc. range: 4.2-13.5 μg/kg, country: UK732, *imported see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (figs), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

AFLATOXINS

incidence: 1/3*, conc.: 2 µg/kg, country: USA¹⁹⁷, *imported incidence: 10/12, conc. range: ≤9.1 µg/kg, Ø conc.: 1.47 µg/kg, country: Morocco⁸⁶⁶ see also beans, candy (peanut), candy (pistachio), cassava, figs, flour (maize), grain mixtures, grains, maize, maize dough, maize products, melon seeds, millet, nuts, nuts

(almond), nuts (brazil), nuts (peanut), nuts (peanut butter), nuts (peanut mix), nuts (peanut products), nuts (pecan), nuts (pistachio), nuts (walnut), nuts and seeds, paste (peanut), paste (pipian), peas, rice, sauce (leaf), snacks, sorghum, spices, spices (chilli), spices (cumin), spices (nutmeg), spices (paprika), spices (pepper), spices (tandoori), teff, tubers, wheat

Deoxynivalenol

incidence: 1/4*, conc.: 9 µg/kg, country: UK⁷³², *imported see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), wheat

Neosolaniol

incidence: 1/4*, conc.: 23 μg/kg, country: UK⁷³², *imported see also cereals (breakfast), maize, oat products, sorghum, spices (curry), wheat

Nivalenol

incidence: 1/4*, conc.: 34 μg/kg, country: UK⁷³², *imported see also barley, beer, biscuits, bran (wheat), bread, cake, cereal (baby), cereals,cereals (breakfast), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, germ (wheat), grits (maize), grits (wheat), Job's-tears, maize, malt (barley), meal (millet), millet, noodles, oat products, oats, rice, rye, snacks, sorghum, soybeans, spices (chilli sauce), spices (curry), spices (curry paste), spices (curry powder), spices (garlic), spices (tandoori), wheat

OCHRATOXIN A

incidence: 2/25, conc. range: 10-29 µg/kg (1 sa), 50-100 μg/kg (1 sa), country: India³³³ incidence: ?/4*, conc. range: 2.1-7.5 µg/kg, country: UK732, *imported see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices

(curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

T-2 Toxin

incidence: 1/4*, conc.: 18 µg/kg, country: UK⁷³², *imported see also barley, beans, beer, bran (oat), bran (wheat), bread, cereals, cereals (breakfast), flakes (oat), flour, flour (maize), flour (wheat), food, grits (maize), maize, nuts (hazelnut), nuts (peanut), oat products, oats, rice, rye, sorghum, spices (curry), spices (tandoori), sunflower seeds, wheat

Spices (Indian cassia) may contain the following mycotoxins:

Aflatoxin B₁

incidence: 1/6, conc.: 13 μg/kg, country: India⁸⁰³

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk

411 Spices (Indian cassia)

products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olive, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂

incidence: 1/6, conc.: 11 μg/kg, country: India⁸⁰³

see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds,

sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (cilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Aflatoxin G_1

incidence: 1/6, conc.: 8 μg/kg, country: India⁸⁰³

see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

AFLATOXIN G₂

incidence: 1/6, conc.: 4 μ g/kg, country: India⁸⁰³

see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive),

Spices (Indian cassia) 412

paste (soybean), popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

Spices (ingwer) may contain the following mycotoxins:

Aflatoxin B₁ incidence: $1/12^*$, conc.: $\leq 5 \mu g/kg$, country: Germany⁷⁷⁵, *imported

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil

(peanut), oil seed rape, olive, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cavenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Spices (mustard) may contain the following mycotoxins:

AFLATOXIN B₁

incidence: 44/100, conc. range: tr-750 µg/kg, country: India154

incidence: 17/41, conc. range: 8-780 µg/kg,

country: India398

incidence: 40/273, conc. range: 8-640 µg/kg,

country: India472

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk

413 Spices (mustard)

products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olive, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂ incidence: 9/100, conc. range: ? µg/kg, country: India154 see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds,

sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (cilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Aflatoxin G₁ incidence: 3/100, conc. range: ? µg/kg, country: India154 see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

AFLATOXIN G_2 incidence: 1/100, conc.: ? µg/kg, country: India¹⁵⁴ see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products),

Spices (mustard) 414

nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

OCHRATOXIN A

incidence: 3/4*, conc. range: ≤0.34 μg/kg, country: Germany⁶³⁹, *and imported? see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork,

pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Spices (nutmeg) may contain the following mycotoxins:

AFLATOXIN B₁ incidence: 3*/13, conc. range: 5-15 µg/kg, country: Germany⁶⁷, *moldy incidence: 84/108, conc. range: 0.2-13.4 μg/kg, Ø conc.: 3.6 μg/kg, country: Japan⁹⁹ incidence: 8/10*, conc. range: 1.25-58 µg/kg, Ø conc.: 20.85 μg/kg, country: Portugal¹²⁵, *imported? incidence: 4/13*, conc. range: 5-37.5 µg/kg, country: Canada¹⁵⁹, *imported incidence: 3/5*, conc. range: 2.5-5.5 µg/kg, country: USA¹⁸³, *from Indonesia, Malaysia or India incidence: 25/56, conc. range: 0.2-60.3 µg/kg, country: Japan 184 incidence: 30/32*, conc. range: 1-23.2 μg/kg, Ø conc.: 12.5 μg/kg, country: The Netherlands³⁰⁵, *imported incidence: 1/9*, conc.: 0.09 µg/kg, country: France³⁹⁷, *whole incidence: 5/5*, conc. range: 0.05-0.1 µg/kg (1 sa), 5.1–10 μg/kg (1 sa), 11–40 μg/kg (1 sa), >40 μ g/kg (41 + 58 μ g/kg), \varnothing conc.: 23.8 μg/kg, country: France³⁹⁷, *powdered incidence: 11/28*, conc. range: 5.4-7.7 µg/kg, country: Germany⁷⁷⁵, *imported incidence: 2/3, conc. range: 0.4-0.6 µg/kg, Ø conc.: 0.5 μg/kg, country: Japan⁸⁵⁶

415 Spices (nutmeg)

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olive, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxin B_2

incidence: 84/108, conc. range: 0-2.5 µg/kg, Ø conc.: 0.5 μg/kg, country: Japan⁹⁹ incidence: 3/13*, conc. range: tr-15 µg/kg, country: Canada¹⁵⁹, *imported incidence: 3/5*, conc. range: 0.75-1.1 µg/kg, country: USA¹⁸³, *from Indonesia, Malaysia or India incidence: 25/56, conc. range: 0.1-0.2 µg/kg, country: Japan 184 incidence: 1/3, conc.: 0.2 µg/kg, country: Japan⁸⁵⁶ see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (cilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (paprika), spices (pepper), spices (pepper, cayenne),

AFLATOXIN G₁

wheat, wine

incidence: 84/108, conc. range: 0–2.8 μ g/kg, \varnothing conc.: <0.1 μ g/kg, country: Japan⁹⁹ incidence: 25/56, conc. range: 0.2–1.4 μ g/kg, country: Japan¹⁸⁴ incidence: 1/3, conc.: 0.2 μ g/kg, country: Japan⁸⁵⁶

spices (turmeric), sugar, sunflower seeds,

Spices (nutmeg) 416

see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

Aflatoxin G₂

incidence: 84/108, conc. range: 0–0.4 µg/kg, \varnothing conc.: <0.1 µg/kg, country: Japan⁹⁹ incidence: 1/56, conc.: 0.3 µg/kg, country: Japan¹⁸⁴

see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

AFLATOXINS (B₁, B₂, G₁, G₂) incidence: $30/32^*$, conc. range: 2.7–36.5 µg/kg, \varnothing conc.: 15.8 µg/kg, country: The Netherlands³⁰⁵, *imported

see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (figs), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

Aflatoxins

incidence: 5/5*, conc. range: ≤20 µg/kg, Ø conc.: 13 µg/kg, country: USA¹⁹⁷, *imported

see also beans, candy (peanut), candy (pistachio), cassava, figs, flour (maize), grain mixtures, grains, maize, maize dough, maize products, melon seeds, millet, nuts, nuts (almond), nuts (brazil), nuts (peanut), nuts (peanut butter), nuts (peanut mix), nuts (peanut products), nuts (pecan), nuts (pistachio), nuts (walnut), nuts and seeds, paste (peanut), paste (pipian), peas, rice, sauce (leaf), snacks, sorghum, spices, spices (chilli), spices (cumin), spices (ginger), spices (paprika), spices (pepper), spices (tandoori), teff, tubers, wheat

OCHRATOXIN A

incidence: 1/1, conc.: 2.9 μg/kg, country: Germany⁶⁴⁰

see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs,

417 Spices (paprika)

duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Spices (paprika) may contain the following mycotoxins:

AFLATOXIN B₁ incidence: $5/12^*$, conc. range: $0.2-1.3 \mu g/kg$, \varnothing conc.: $0.6 \mu g/kg$, country: Japan⁹⁹, *powder?

incidence: 8/12*, conc. range: 1.25–17.75 μg/kg, Ø conc.: 6.98 μg/kg, country: Portugal¹²⁵, *imported? incidence: 7/15*, conc. range: 2.8-14.5 µg/kg, Ø conc.: 7.6 μg/kg, country: Germany⁶⁰², *imported? incidence: 25/25*, conc. range: 0.2-3.4 µg/kg, country: UK839, *from different countries incidence: 14/14*, conc. range: ≤5.4 µg/kg, \emptyset conc.: 2.88 µg/kg, country: Morocco⁸⁶⁶, *red see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts

(pine), nuts (pistachio), nuts (tiger), nuts

oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olive, paste

(walnut), nuts and seeds, oats, oil (coconut),

(soybean), peanut butter / vegetable oil, peas,

poonac, popcorn, ragi, raisins, rice, sausages,

sesame products, sesame seeds, shiro, snacks,

sorghum, soybeans, spices, spices (ammi),

Spices (paprika) 418

spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Aflatoxin B₂

incidence: $5/12^*$, conc. range: $0-0.2 \mu g/kg$, \varnothing conc.: $<0.1 \mu g/kg$, country: Japan⁹⁹, *powder?

incidence: 7/15*, conc. range: 0.1–1.7 µg/kg, \varnothing conc.: 0.81 µg/kg, country: Germany⁶⁰², *imported?

incidence: 3/25*, conc. range: 0.2–0.3 μg/kg, Ø conc.: 0.23 μg/kg, country: UK⁸³⁹, *from different countries

see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (cilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

AFLATOXIN G₁

incidence: 23/25*, conc. range: 0.2-2.2 µg/kg, country: UK⁸³⁹, *from different countries see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

Aflatoxin G₂

incidence: 11/25*, conc. range: 0.2–0.7 µg/kg, country: UK839, *from different countries see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

419 Spices (paprika)

Aflatoxins (B_1, B_2, G_1, G_2) incidence: 1/9* **, conc.: 1.8 µg/kg, country: UK⁷²⁸, *powder?, **imported see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (figs), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (pepper, cayenne), sunflower seeds, vegetables, wheat

Aflatoxins

incidence: 14/14*, conc. range: ≤9.68 μg/kg, Ø conc.: 5.23 μg/kg, country: Morocco⁸⁶⁶, *red

see also beans, candy (peanut), candy (pistachio), cassava, figs, flour (maize), grain mixtures, grains, maize, maize dough, maize products, melon seeds, millet, nuts, nuts (almond), nuts (brazil), nuts (peanut), nuts (peanut butter), nuts (peanut mix), nuts (peanut products), nuts (pecan), nuts (pistachio), nuts (walnut), nuts and seeds, paste (peanut), paste (pipian), peas, rice, sauce (leaf), snacks, sorghum, spices, spices (chilli), spices (cumin), spices (ginger), spices (nutmeg), spices (pepper), spices (tandoori), teff, tubers, wheat

OCHRATOXIN A

incidence: 9/10*, conc. range: 0.5–8.6 μg/kg, Ø conc.: 3.1 μg/kg, country: Germany⁵⁷⁶, *imported incidence: 25/25*, conc. range: 0.3–47.7 μg/kg, country: UK⁸³⁹, *from different countries see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, ligourice, ligourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Spices (pepper) 420

Spices (pepper) may contain the following mycotoxins:

Aflatoxin B₁ incidence: 8/15* **, conc. range: 0.2-32.9 $\mu g/kg$, \varnothing conc.: 8.1 $\mu g/kg$, country: USA¹¹, *red, **imported incidence: 1/7* **, conc.: 0.3 μg/kg, country: USA11, *white, **imported incidence: 4/15*, conc. range: 22 µg/kg, country: Egypt14, *white incidence: 4/15*, conc. range: 35 μg/kg, country: Egypt¹⁴, *black incidence: 8/60*, conc. range: 250-525 μg/kg, Ø conc.: 425.7 μg/kg, country: Ethiopia⁵³, *black incidence: 2/10*, conc. range: 2.6-9.1 μg/kg, Ø conc.: 5.9 μg/kg, country: Japan⁹⁹, *red incidence: 11/84*, conc. range: 0.1-1.8 μg/kg, Ø conc.: 0.8 μg/kg, country: Japan⁹⁹, *white incidence: 3/7* **, conc. range: 1.25-5 μg/kg, Ø conc.: 3.67 μg/kg, country: Portugal¹²⁵, *white, **imported? incidence: 3/8* **, conc. range: 1.5-2.2 µg/kg, Ø conc.: 1.96 μg/kg, country: Portugal¹²⁵, *red, **imported? incidence: 7/24*, conc. range: 0.6-2.3 µg/kg, country: Japan¹⁸⁴, *white incidence: 18/70**, conc. range: 0.14-15.7 μg/kg, country: Hungary²⁵², *red, **partly imported incidence: 1/6* **, conc.: 0.46 μg/kg, country: Hungary²⁵², *black, **imported incidence: 1/1* **, conc.: 2 μg/kg, country: Japan³⁴⁶, *red, **imported incidence: 1/1* **, conc.: 10.8 μg/kg, country: Japan³⁴⁶, *black, **imported incidence: 20/32* **, conc. range: 1.7-100 $\mu g/kg^{***}$, \varnothing conc.: 29 $\mu g/kg$, country: Turkey³⁴⁷, *red, **partly imported and unknown origin, ***TLC and HPLC incidence: 5?/8*, conc. range: 17-190 μg/kg, country: India803, *black incidence: 1/2* **, conc.: 0.8 μg/kg, country: Japan⁸⁵⁶, *red, **imported incidence: 1/13* **, conc.: 0.6 µg/kg, country: Japan⁸⁵⁶, *white, **imported

incidence: 7/15*, conc. range: ≤0.3 μg/kg, Ø conc.: 0.09 μg/kg, country: Morocco⁸⁶⁶, *black

incidence: 17/26*, conc. range: 0.6-56 µg/kg, Ø conc.: 17.5 μg/kg, country: Turkey⁸⁶⁸, *red see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olive, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger),

421 Spices (pepper)

spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂ incidence: 8/15* **, conc. range: 0.1-1.5 $\mu g/kg$, \varnothing conc.: 0.38 $\mu g/kg$, country: USA¹¹, *red, **imported incidence: 2/10*, conc. range: 0-0.4 μg/kg, Ø conc.: 0.2 μg/kg, country: Japan⁹⁹, *red incidence: 11/84*, conc. range: 0-0.3 µg/kg, Ø conc.: <0.1 μg/kg, country: Japan⁹⁹, *white incidence: 7/24*, conc. range: 0.1-0.2 µg/kg, country: Japan¹⁸⁴, *white incidence: 10/70* **, conc. range: 0.22-1.25 μg/kg, country: Hungary²⁵², *red, **partly imported incidence: 7/32* **, conc. range: 3.2-40 $\mu g/kg^{***}$, \varnothing conc.: 11.2 $\mu g/kg$, country: Turkey³⁴⁷, *red, **partly imported and unknown origin, ***TLC incidence: 5?/8*, conc. range: 12-150 µg/kg, country: India⁸⁰³, *black incidence: 5/26*, conc. range: 0.4-2.3 µg/kg, Ø conc.: 1.46 μg/kg, country: Turkey⁸⁶⁸, *red see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (cilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wheat, wine

Aflatoxin G₁ incidence: 8/15* **, conc. range: $0.7-28.4 \mu g/kg$, \varnothing conc.: $9.1 \mu g/kg$, country: USA¹¹, *red, **imported incidence: 2/10*, conc. range: 0-1.9 μg/kg, Ø conc.: 1 μg/kg, country: Japan⁹⁹, *red incidence: 11/84*, conc. range: 0-0.9 µg/kg, Ø conc.: 0.2 μg/kg, country: Japan⁹⁹, *white incidence: 3/7* **, conc. range: 1.8-3.7 μg/kg, country: USA¹⁸³, *black, **from Indonesia, Malaysia or India incidence: 7/24*, conc. range: 0.2-1.4 µg/kg, country: Japan¹⁸⁴, *white incidence: 2/20*, conc. range: 1.72-3.18 μg/kg, Ø conc.: 2.45 μg/kg, country: Egypt¹⁹⁹, *black incidence: 4/32* **, conc. range: 0.9-20 $\mu g/kg^{***}$, \varnothing conc.: 8.7 $\mu g/kg$, country: Turkey347, *red, **partly imported and unknown origin, ***TLC incidence: 5?/8*, conc. range: 15-75 µg/kg, country: India⁸⁰³, *black incidence: 1/26*, conc.: 0.6 μg/kg, country: Turkey868, *red see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel),

Spices (pepper) 422

spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds, wine

AFLATOXIN G₂ incidence: 1/15* **, conc.: 1.1 μg/kg, country: USA¹¹, *red, **imported incidence: 1/7* **, conc.: 1.1 μg/kg, country: USA¹⁸³, *black, **from Indonesia, Malaysia or India incidence: 1/32* **, conc.: 2 μg/kg***, country: Turkey³⁴⁷, *red, **partly imported and unknown origin, ***TLC incidence: 5?/8*, conc. range: 12-76 μg/kg, country: India803, *black see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

Aflatoxin

incidence: ?/13* **, conc. range: ≤32 μg/kg, country: Ethopia⁷⁶, *red, **powder see also barley, beer, bran (rice), flour (maize), injera, jars, kocho, maize, maize roti, malt (barley), malt (maize), nuts (peanut), nuts (peanut butter, nuts (pistachio), oil (peanut), paste (pepper, red), rice

AFLATOXINS (B, G) incidence: 1/20*, conc.: 13.8 μg/kg, country: Turkey²⁶², *isot incidence: 8/44* **, conc. range: 1.1–97.5 μg/kg, Ø conc.: 20.5 μg/kg, country: Turkey²⁶², *red, **scaled

incidence: 3/26* **, conc. range: 1.8–16.4 μg/kg, Ø conc.: 7.3 μg/kg, country: Turkey²⁶², *red, **powder

AFLATOXINS

incidence: 14/15*, conc. range: \leq 0.55 µg/kg, \varnothing conc.: 0.21 µg/kg, country: Morocco⁸⁶⁶, *black

see also beans, candy (peanut), candy (pistachio), cassava, figs, flour (maize), grain mixtures, grains, maize, maize dough, maize products, melon seeds, millet, nuts, nuts (almond), nuts (brazil), nuts (peanut), nuts (peanut butter), nuts (peanut mix), nuts (peanut products), nuts (pecan), nuts (pistachio), nuts (walnut), nuts and seeds, paste (peanut), paste (pipian), peas, rice, sauce (leaf), snacks, sorghum, spices, spices (chilli), spices (cumin), spices (ginger), spices (nutmeg), spices (paprika), spices (tandoori), teff, tubers, wheat

ALTERNARIOL

incidence: 1/1, conc.: 640 μ g/kg, country: Italy³⁴⁰ see also bran, fruits (apple), fruits (mandarin fruit), juice (apple, concentrate), fruits (apple, concentrate), olives, sunflower seeds, tomatoes, wheat

ALTERNARIOL METHYL ETHER incidence: 1/1, conc.: 49 µg/kg, country: Italy³⁴⁰

see also barley, bran, fruits (apple), fruits (mandarin fruit), fruits (melon), juice (apple, concentrate), olives, ragi, sorghum, sunflower seeds, tomatoes, wheat

CITRININ

incidence: 1/8*, conc.: 50 µg/kg, country: India⁸⁰³, *black see also angkak (red mold rice), barley, cereals, cheese, food, food colorant, fruits (apple), maize, maize dough, meal (copra), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), oil seed rape, olives, rice, spices, spices (cardamom), spices (coriander), spices (cumin), spices (fennel), spices (turmeric), wheat

423 Spices (pepper)

OCHRATOXIN A

incidence: 32/70* **, conc. range: 0.4–66.2 μg/kg, country: Hungary²⁵², *red, **partly imported

incidence: 14/26*, conc. range: 10–29 μg/kg (8 sa), 30–49 μg/kg (5 sa), 50–100 μg/kg (1 sa), country: India³³³, *black incidence: 1/2, conc.: 1 μg/kg, country: Germany⁶⁴⁰

see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame

seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Sterigmatocystin

incidence: 2/8*, conc. range: 105–125 μg/kg, Ø conc.: 115 μg/kg, country: India⁸⁰³, *black see also barley, cassava, cheese, coffee, maize, nuts (almond), nuts (pecan), nuts (pistachio), oil seed rape, rice, spices, spices (fennel), wheat

TENUAZONIC ACID

incidence: 1/1, conc.: 54 μg/kg, country: Italv³⁴⁰

see also bran, cassava, fruits (mandarin fruit), maize, olives, pulp (tomato), ragi, rice, sorghum, sunflower seeds, tomato purée, tomatoes, wheat

Zearalenone

incidence: 5/10*, conc. range: 2-17 µg/kg, country: Germany⁵²⁰, *red see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (sauce), spices (coriander), spices (curry), spices (curry

Spices (pepper) 424

paste), spices (curry powder), spices (fennel), spices (garlic pickle), sunflower seeds, vegetables, wheat

Spices (pepper, cayenne) may contain the following mycotoxins:

Aflatoxin B_1

incidence: 5/5*, conc. range: 2.3–31.8 μg/kg, Ø conc.: 8.87 μg/kg, country: Portugal¹²⁵, *imported?

incidence: 10/33*, conc. range: tr–8 μg/kg, country: Canada¹⁶⁰, *from India incidence: 2/2*, conc. range: 2.1–5.5 μg/kg, Ø conc.: 3.8 μg/kg, country: Denmark¹⁹³, *imported

incidence: $13/24^*$ **, conc. range: 9.5-211.3 µg/kg, \varnothing conc.: 62.3 µg/kg, country: Germany⁶⁰², *imported, **and ground chillies incidence: $4/4^*$, conc. range: 0.2-6.8 µg/kg, \varnothing conc.: 2.26 µg/kg, country: UK⁸³⁹, *from different countries

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts

(coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olive, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂

incidence: 5/33*, conc. range: tr, country: Canada¹⁶⁰, *from India

incidence: 2/2*, conc. range: 2.1–3.9 μg/kg, Ø conc.: 3 μg/kg, country: Denmark¹⁹³, *imported

incidence: 13/24* **, conc. range: 0.3-7.1 μg/kg, Ø conc.: 1.8 μg/kg, country: Germany⁶⁰², *imported, **and ground chillies incidence: 1/4*, conc.: 0.2 µg/kg, country: UK839, *from different countries see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job'stears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products),

425 Spices (pepper, cayenne)

nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (cilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (turmeric), sugar, sunflower seeds, wheat, wine

Aflatoxin G₁

incidence: 2/2*, conc. range: 1-2.4 µg/kg, Ø conc.: 1.7 μg/kg, country: Denmark¹⁹³, *imported incidence: 11/24* **, conc. range: 0.2-18.3 µg/kg, Ø conc.: 5.9 μg/kg, country: Germany⁶⁰², *imported, **and ground chillies incidence: 1/4*, conc.: 0.8 μg/kg, country: UK839, *from different countries see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pinhol), spices (turmeric), sunflower seeds, wine

AFLATOXIN G_2 incidence: $2/2^*$, conc. range: $0.6-1.5 \mu g/kg$, \varnothing conc.: $1.1 \mu g/kg$, country: Denmark¹⁹³, *imported

see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (turmeric), sunflower seeds, wine

Aflatoxins (B_1, B_2, G_1, G_2) incidence: 4/8*, conc. range: 1–10 μg/kg (2 sa), $>10 \mu g/kg$ (2 sa, with a maximum of 14.8 µg/kg), country: UK⁷²⁸, *imported see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (figs), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), sunflower seeds, vegetables, wheat

OCHRATOXIN A

incidence: $4/4^*$, conc. range: 2.4– $16.5 \mu g/kg$, \varnothing conc.: $6.98 \mu g/kg$, country: UK^{839} , *from different countries see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals,

Spices (pepper, cayenne) 426

cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Spices (pinhol) may contain the following mycotoxins:

Aflatoxin G₁ incidence: 1/2*, conc.: 0.5 μg/kg, country: Spain²⁶¹, *and China see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wine

Spices (saffron) may contain the following mycotoxins:

Aflatoxin B₁

incidence: 2/5*, conc. range: 2–2.75 μ g/kg, \varnothing conc.: 2.38 μ g/kg, country: Portugal¹²⁵, *imported?

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs

427 Spices (tandoori)

and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olive, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

Spices (tandoori) may contain the following mycotoxins:

Aflatoxins

incidence: ?/3*, conc. range: 1.9–6.8 μg/kg, country: UK⁷³², *imported see also beans, candy (peanut), candy (pistachio), cassava, figs, flour (maize), grain mixtures, grains, maize, maize dough, maize products, melon seeds, millet, nuts, nuts (almond), nuts (brazil), nuts (peanut), nuts

(peanut butter), nuts (peanut mix), nuts (peanut products), nuts (pecan), nuts (pistachio), nuts (walnut), nuts and seeds, paste (peanut), paste (pipian), peas, rice, sauce (leaf), snacks, sorghum, spices, spices (chilli), spices (cumin), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper), teff, tubers, wheat

Fumonisins (B_1 , B_2) incidence: 1/3*, conc.: 19 µg/kg, country: UK⁷³², *imported see also beer, flour (maize), food (infant), maize, meal (maize), noodles, rice, spice powder, spices (chilli pickle), spices (curry), spices (curry paste), spices (curry powder)

Nivalenol

incidence: ?/3*, conc. range: 60–126 μg/kg, country: UK⁷³², *imported see also barley, beer, biscuits, bran (wheat), bread, cake, cereal (baby), cereals,cereals (breakfast), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, germ (wheat), grits (maize), grits (wheat), Job's-tears, maize, malt (barley), meal (millet), millet, noodles, oat products, oats, rice, rye, snacks, sorghum, soybeans, spices (chilli sauce), spices (curry), spices (curry paste), spices (curry powder), spices (garlic), spices (ginger), wheat

OCHRATOXIN A

incidence: ?/3*, conc. range: 2.2-23.9 µg/kg, country: UK732, *imported see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), Spices (tandoori) 428

fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, ligourice, ligourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

T-2 Toxin

incidence: ?/3*, conc. range: ≤281 µg/kg, country: UK⁷³², *imported see also barley, beans, beer, bran (oat), bran (wheat), bread, cereals, cereals (breakfast), flakes (oat), flour, flour (maize), flour (wheat), food, grits (maize), maize, nuts (hazelnut), nuts (peanut), oat products, oats, rice, rye, sorghum, spices (curry), spices (ginger), sunflower seeds, wheat

Spices (turmeric) may contain the following mycotoxins:

AFLATOXIN B₁ incidence: 2/15, conc. range: 12 µg/kg, country: Egypt¹⁴ incidence: 6/7*, conc. range: tr-3.8 μg/kg, country: Canada¹⁵⁹, *imported incidence: 5?/9, conc. range: 21-165 µg/kg, country: India803 see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olive, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi),

429 Spices (turmeric)

spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), sugar, sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂

incidence: 3/7*, conc. range: tr-1.3 μg/kg, country: Canada¹⁵⁹, *imported incidence: 5?/9, conc. range: 12-150 µg/kg, country: India⁸⁰³ see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (cilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), sugar, sunflower seeds, wheat, wine

Aflatoxin G_1 incidence: 2/15, conc. range: 8 µg/kg, country: Egypt¹⁴ incidence: 5?/9, conc. range: 20–125 µg/kg, country: India⁸⁰³

see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), sunflower seeds, wine

AFLATOXIN G₂

incidence: 5?/9, conc. range: 14-125 µg/kg, country: India⁸⁰³ see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), sunflower seeds, wine

CITRININ

incidence: 2/9, conc. range: $48-52 \mu g/kg$, \varnothing conc.: 50 $\mu g/kg$, country: India⁸⁰³ see also angkak (red mold rice), barley, cereals, cheese, food, food colorant, fruits

Spices (turmeric) 430

(apple), maize, maize dough, meal (copra), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), oil seed rape, olives, rice, spices, spices (cardamom), spices (coriander), spices (cumin), spices (fennel), spices (pepper), wheat

OCHRATOXIN A

incidence: 9/25, conc. range: 10-29 µg/kg (3 sa), 30–49 μg/kg (2 sa), 50–100 μg/kg (3 sa), 110 μg/kg (1 sa), country: India³³³ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, ligourice, liquerice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages,

sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Rubratoxin

incidence: 1/9, conc.: 375 μg/kg, country:

India⁸⁰³

see also nuts (almond), nuts (walnut), wheat

Stilton cheese

see Cheese (blue)

Strawberries

see Berries (strawberry)

Sugar may contain the following mycotoxins:

Aflatoxin B₁

incidence: 3/9, conc. range: 1-1.5 µg/kg, Ø conc.: 1.2 μg/kg, country: Japan⁹⁹ see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan

431 Sultanas

(almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olive, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sunflower seeds, taharna (fermented cereal product), vegetables, wheat, wine

AFLATOXIN B₂

incidence: 3/9, conc. range: 0.1–0.2 μg/kg, Ø conc.: 0.1 μg/kg, country: Japan⁹⁹ see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut

butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (cilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sunflower seeds, wheat, wine

Sultanas may contain the following mycotoxins:

incidence: 179/264*, conc. range: 0.026-1

μg/kg (51 sa), 1.01–2 μg/kg (24 sa), 2.01–5

OCHRATOXIN A

 $\mu g/kg$ (49 sa), 5.01–10 $\mu g/kg$ (29 sa), >10 μg/kg (26 sa, with a maximum of 54 μg/kg), country: Turkey251, *unprocessed incidence: 17/27, conc. range: <13.2 µg/kg, country: Greece²⁶³ incidence: 17/20*, conc. range: 0.5->20 μg/kg, country: UK⁶³⁵, *from different countries incidence: 92/100*, conc. range: 0.1 µg/kg (5 sa), 0.2–4 μg/kg (67 sa), 4.1–10 μg/kg (11 sa), 10.1-20 μg/kg (7 sa), 20.1-30 μg/kg (2 sa, with a maximum of 25.1 μg/kg), country: UK⁶³⁸, *from different countries incidence: 29/43* **, conc. range: 0.1-5 µg/kg (21 sa), 5.1–10 μg/kg (4 sa), 10.1–20 μg/kg (3 sa), 33.9 μg/kg (1 sa), country: Brazil⁸⁶⁵, *from worldwide, **black and white see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat),

Sultanas 432

flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, ligourice, ligourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Sunflower seeds may contain the following mycotoxins:

AFLATOXIN B₁ incidence: 1/4*, conc.: 10.5 μg/kg, country: GDR¹⁷⁸, *moldy see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai,

bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olive, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, taharna (fermented cereal product), vegetables, wheat, wine

433 Sunflower seeds

Aflatoxin B₂

incidence: 1/4*, conc.: 0.5 μg/kg, country: GDR¹⁷⁸, *moldy

see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (cilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, wheat, wine

Aflatoxin G₁

incidence: 1/4*, conc.: 0.4 μg/kg, country: GDR¹⁷⁸, *moldy

see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut products), nuts (peanut butter), nuts (peanut products), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn,

raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), wine

Aflatoxin G₂

incidence: $1/4^*$, conc.: 0.03 µg/kg, country: GDR¹⁷⁸, *moldy

see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), turmeric, wine

Aflatoxins (B_1, B_2, G_1, G_2) incidence: 7*/136, conc. range: 5-9.9 μg/kg (5 sa), 10–14.9 μg/kg (1 sa), 15–19.9 μg/kg (1 sa), country: Canada⁵⁹ see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (figs), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel),

Sunflower seeds 434

spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), vegetables, wheat

AFLATOXINS (TOTAL)

incidence: $1/1^*$, conc.: $\approx 2 \mu g/kg$, country: Poland¹¹⁰, *imported?

see also beans, butter, figs, maize, nut cereals, nuts (almond), nuts (brazil), nuts (cashew), nuts ("chico-felix"), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), paste (fig)

ALTERNARIOL

incidence: 128/150*, conc. range: 50–676 μg/kg, Ø conc.: 189 μg/kg, country:

Argentina³³⁸, *ncac

incidence: $20/20^*$, conc. range: 250-980 µg/kg, \varnothing conc.: 661 µg/kg, country:

Argentina³³⁹, *ncac

incidence: 17/20*, conc. range: 60–800 μg/kg, Ø conc.: 360 μg/kg, country: Argentina³³⁹, *ncac

incidence: $4/20^*$, conc. range: 800-1600 µg/kg, \varnothing conc.: 1070 µg/kg, country: Argentina³³⁹, *ncac

incidence: 2/2, conc. range: 357–1840 μg/kg, Ø conc.: 1098.5 μg/kg, country: Italy³⁴⁰ incidence: 37/50, conc. range: 35–792 μg/kg, Ø conc.: 166 μg/kg, country: Argentina⁴⁸⁹ see also bran, fruits (apple), fruits (mandarin fruit), juice (apple, concentrate), olives,

Alternariol Methyl Ether incidence: $70/150^*$, conc. range: 30-836 µg/kg, \varnothing conc.: 202 µg/kg, country: Argentina³³⁸, *ncac

spices (pepper), tomatoes, wheat

incidence: 1/20*, conc.: 600 μg/kg, country: Argentina³³⁹, *ncac

incidence: 1/20*, conc.: 800 μg/kg, country: Argentina³³⁹, *ncac

incidence: 1/2, conc.: 129 μg/kg, country: Italy³⁴⁰

incidence: 31/50, conc. range: 90–630 μg/kg, Ø conc.: 114 μg/kg, country: Argentina⁴⁸⁹ see also barley, bran, fruits (apple), fruits (mandarin fruit), fruits (melon), juice (apple, concentrate), olives, ragi, sorghum, spices (pepper), tomatoes, wheat

HT-2 Toxin

incidence: 2/5, conc.: 5 μg/kg, country: Germany⁵²⁰

see also barley, bran (oat), bran (wheat), bread, cereal (baby), cereals, cereals (breakfast), flakes (oat), flour (maize), flour (wheat), food, food (baby), germ (wheat), grits (maize), groats (oat), maize, noodles, nuts (hazelnut), oat products, oats, pumpkin seeds, pumpkin seeds, rye, spices (chilli powder), spices (curry), wheat

OCHRATOXIN A

incidence: 10/34, conc. range: ≤0.1 µg/kg, country: Germany⁵⁹²

incidence: 4/25, conc. range: 0.2–0.49 µg/kg (2 sa), 1.5–9.99 µg/kg (2 sa), country: Germany 623

see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, ligourice, ligourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rve), meal (spelt), meal (wheat), meat and fish, milk (cow), milk

435 Syrup (apple)

(human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

TENUAZONIC ACID

incidence: 98/150*, conc. range: 2500–15,796 μg/kg, Ø conc.: 6459 μg/kg, country: Argentina³³⁸, *ncac incidence: 16/20*, conc. range: 3900–31,600 μg/kg, Ø conc.: 16,000 μg/kg, country: Argentina³³⁹, *ncac incidence: 13/20*, conc. range: 3600–15,800 μg/kg, Ø conc.: 8000 μg/kg, country: Argentina³³⁹, *ncac incidence: 9/20*, conc. range: 3120–6240 μg/kg, Ø conc.: 4500 μg/kg, country: Argentina³³⁹, *ncac see also bran, cassava, fruits (mandarin fruit), maize, olives, pulp (tomato), ragi, rice, sorghum, spices (pepper), tomato purée,

T-2 Toxin

tomatoes, wheat

incidence: 2/5, conc. range: 20–21 μg/kg, country: Germany⁵²⁰ see also barley, beans, beer, bran (oat), bran (wheat), bread, cereals, cereals (breakfast), flakes (oat), flour, flour (maize), flour (wheat), food, grits (maize), maize, nuts

(hazelnut), nuts (peanut), oat products, oats, rice, rye, sorghum, spices (curry), spices (ginger), tandoori, wheat

ZEARALENONE

incidence: 2/5, conc. range: 2-4 µg/kg, country: Germany⁵²⁰ see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), vegetables, wheat

Sweetcorn

see Maize

Sweet potatoes

see Tubers

Sweet wine

see Wine

Swine

see Pork

Syrup (apple) may contain the following mycotoxins:

PATULIN

incidence: 1/44, conc.: 30 μg/l, country: Belgium⁷²² see also apple cider, apple flavor, apples (stewed fruit), berries (blueberry), berries

Syrup (apple) 436

(lingnonberry), berries (mulberry), berries (raspberry), berries (strawberry), cassava, cheese, food (baby), fruit products, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (pear), fruits (plum), jam, jam (apple), juice, juice (apple), juice (apple–acerola), juice (apple, concentrate), juice (cherry), juice (currant), juice (fruit), juice (grape), juice (orange), juice (peach), juice (pear), must, pulp (plum), vinegar

Syrup (sorghum) may contain the following mycotoxins:

Fumonisin B₁

incidence: 1/35, conc.: 120 μ g/kg, country: USA⁶⁸¹

see also arepas, asparagus, barley, batter, beans, beer, bran (maize), bread, cake (rice), cereals, cereals (breakfast), chamomile, chips (maize), chips (tortilla), flakes (corn), flour (maize), food, food (baby), foodstuff, grits (maize), Incaparina, leaves, maize, maize fiber, maize muffin, maize products, maize silk, maize starch, masa, meal (maize), meal (sorghum), milk, muffin mix, nuts (peanut), pancake, popcorn, rapoko, rice, snacks, sorghum, soybeans, tea, tortillas, wheat

Table wine

see Wine

Taco

see Tortillas

Tandoori

see Spices (tandoori)

Tarhana (fermented cereal product) may contain the following mycotoxins:

AFLATOXIN B₁

incidence: 4/31, conc. range: nc, country: Turkey²¹⁰

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa

hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olive, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, vegetables, wheat, wine

Tea may contain the following mycotoxins:

Fumonisin B₁ incidence: 16/18* **, conc. range: 80–280 µg/kg, country: Portugal³¹⁰, *black, **imported?

437 Teff

see also arepas, asparagus, barley, batter, beans, beer, bran (maize), bread, cake (rice), cereals, cereals (breakfast), chamomile, chips (maize), chips (tortilla), flakes (corn), flour (maize), food, food (baby), foodstuff, grits (maize), Incaparina, leaves, maize, maize fiber, maize muffin, maize products, maize silk, maize starch, masa, meal (maize), meal (sorghum), milk, muffin mix, nuts (peanut), pancake, popcorn, rapoko, rice, snacks, sorghum, soybeans, syrup (sorghum), tortillas, wheat

OCHRATOXIN A

incidence: 2/5*, conc.: 0.13–0.44 μg/kg, country: Germany³¹¹, *herbal for children incidence: 19/23*, conc.: 0. 3–64.3 μg/kg, country: Germany³¹¹, *herbal with special indication

incidence: 1/32*, conc.: 1.33 μg/kg, country: Germany⁵⁸¹, *green

incidence: $3/34^*$, conc. range: $\leq 1.78 \,\mu\text{g/kg}$, \varnothing conc.: $1.14 \,\mu\text{g/kg}$, country: Germany⁵⁸¹, *herb incidence: $13/31^*$, conc. range: $\leq 10.3 \,\mu\text{g/kg}$, \varnothing conc.: $2.78 \,\mu\text{g/kg}$, country: Germany⁵⁸¹, *children´s herb

see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver

(duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat, wine

Teff may contain the following mycotoxins:

AFLATOXINS

incidence: 8/81*, conc. range: 9-20 μg/kg (8 sa), Ø conc.: 15.8 μg/kg, country: Ethiopia¹⁰⁷, *mixed incidence: 9/81*, conc. range: 10-20 µg/kg (9 sa), 21–30 µg/kg (1 sa), \emptyset conc.: 16.4 µg/kg, country: Ethiopia¹⁰⁷, *red incidence: 7/81*, conc. range: 9-20 µg/kg (7 sa), \varnothing conc.: 13.7 µg/kg, country: Ethiopia¹⁰⁷, *white incidence: 23/81*, conc. range: 9-20 µg/kg (13 sa), 21-30 µg/kg (8 sa), 31-39 µg/kg (2 sa), \varnothing conc.: 20.7 µg/kg, country: Ethiopia¹⁰⁷, *maize see also beans, candy (peanut), candy (pistachio), cassava, figs, flour (maize), grain mixtures, grains, maize, maize dough, maize products, melon seeds, millet, nuts, nuts

Teff 438

(almond), nuts (brazil), nuts (peanut), nuts (peanut butter), nuts (peanut mix), nuts (peanut products), nuts (pecan), nuts (pistachio), nuts (walnut), nuts and seeds, paste (peanut), paste (pipian), peas, rice, sauce (leaf), snacks, sorghum, spices, spices (chilli), spices (cumin), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper), spices (tandoori), tubers, wheat

Tiger Nut

see Nuts (tiger)

Tilsit cheese

see Cheese

Toast

see Bread

Tomato Juice

see Juice (tomato)

Tomato ketchup may contain the following mycotoxins:

Ochratoxin A

incidence: $18/57^*$, conc. range: $\leq 3.8 \mu g/l$, country: Germany⁶³⁹, *and imported? see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice

(carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomatoes, turkey, vegetables, vinegar, wheat, wine

Tomato pulp

see Pulp (Tomato)

Tomato purée may contain the following mycotoxins:

Cyclopiazonic Acid

incidence: 2/4, conc. range: 36–117 µg/kg, \varnothing conc.: 76.5 µg/kg, country: Brazil³³² see also cassava, cheese, maize, milk (cow), nuts (peanut), pulp (tomato)

TENUAZONIC ACID

incidence: 4/4, conc. range: 29–76 µg/kg, \varnothing conc.: 53 µg/kg, country: Brazil³³²

439 Tomatoes

see also bran, cassava, fruits (mandarin fruit), maize, olives, pulp (tomato), ragi, rice, sorghum, spices (pepper), sunflower seeds, tomatoes, wheat

Tomatoes may contain the following mycotoxins:

ALTENUENE

incidence: 4/19, conc. range: $<100-1100~\mu g/kg$, country: USA³⁴⁴ see also barley, fruits (apple), maize, olives, ragi, rice, sorghum, wheat

ALTERNARIOL

incidence: 1/2, conc.: 1274 $\mu g/kg$, country: Italy³⁴⁰

incidence: 6/19, conc. range: <100–5300 μg/kg, country: USA³⁴⁴ see also bran, fruits (apple), fruits (mandarin fruit), juice (apple, concentrate), olives, spices (pepper), sunflower seeds, wheat

Alternariol Methyl Ether incidence: 2/2, conc. range: 37–268 µg/kg, \varnothing conc.: 152.5 µg/kg, country: Italy³⁴⁰ incidence: 5/19, conc. range: <100–800 µg/kg, country: USA³⁴⁴

see also barley, bran, fruits (apple), fruits (mandarin fruit), fruits (melon), juice (apple, concentrate), olives, ragi, sorghum, spices (pepper), sunflower seeds, wheat

OCHRATOXIN A

incidence: 6/11*, conc. range: tr-1.44 µg/kg, country: Germany²⁸⁹, *moldy see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food

(infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rve), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, turkey, vegetables, vinegar, wheat, wine

TENUAZONIC ACID

incidence: 2/2, conc. range: 24–7210 µg/kg, \varnothing conc.: 3617 µg/kg, country: Italy³40 incidence: 73/146, conc. range: 400–69,700 µg/kg, country: USA³41 incidence: 73/142, conc. range: 400–70,000 µg/kg, country: USA³43 incidence: 11/19, conc. range: <100–139,000 µg/kg, country: USA³44 see also bran, cassava, fruits (mandarin fruit), maize, olives, pulp (tomato), ragi, rice,

Tomatoes 440

sorghum, spices (pepper), sunflower seeds, tomato purée, wheat

Tortilla chips

see Chips (tortilla)

Tortillas may contain the following mycotoxins:

Fumonisin B₁

incidence: 7/7, conc. range: 210–1070 μg/kg, Ø conc.: 601 μg/kg, country: Mexico³⁶⁴ incidence: 1/1*, conc.: 230 μg/kg, country: USA³⁸⁴, *mix

incidence: 2/2*, conc. range: 13–19 μg/kg, Ø conc.: 16 μg/kg, country: Denmark³⁸⁵, *taco shells

incidence: 9/11*, conc. range: 24–612 μg/kg, Ø conc.: 227 μg/kg, country: Canada⁴⁰⁵,

incidence: $46/48^*$, conc. range: $12-672 \mu g/kg$, \varnothing conc.: $192.7 \mu g/kg$, country:

USA/Mexico⁴⁰⁹, *white

incidence: 4/4*, conc. range: 120-190 µg/kg,

Ø conc.: 152.5 μg/kg, country: USA/Mexico⁴⁰⁹, *yellow

incidence: 1/2, conc.: 120 μg/kg, country: USA⁴¹⁰

incidence: ?/73*, conc. range:

400–11,600 µg/kg**, country: USA 668 , *from Guatemala, **dw

incidence: 2/4, conc. range: 112.9–175 μg/kg, Ø conc.: 144 μg/kg, country: USA⁸⁶⁹ see also arepas, asparagus, barley, batter, beans, beer, bran (maize), bread, cake (rice), cereals, cereals (breakfast), chamomile, chips (maize), chips (tortilla), flakes (corn), flour (maize), food, food (baby), foodstuff, grits (maize), Incaparina, leaves, maize, maize fiber, maize muffin, maize products, maize silk, maize starch, masa, meal (maize), meal (sorghum), milk, muffin mix, nuts (peanut), pancake, popcorn, rapoko, rice, snacks, sorghum, soybeans, syrup (sorghum), tea. wheat

Fumonisin B₂

incidence: 6/7, conc. range: 50–180 μ g/kg, \varnothing conc.: 88.3 μ g/kg, country: Mexico³⁶⁴

incidence: 2/2*, conc. range: 7 μg/kg, Ø conc.: 7 μg/kg, country: Denmark³⁸⁵, *taco shells incidence: 6/11*, conc. range: 26–218 μg/kg, Ø conc.: 73.5 μg/kg, country: Canada⁴⁰⁵, *dried

incidence: 1/2, conc.: 30 μg/kg, country: USA⁴¹⁰

see also arepas, asparagus, barley, batter, beer, bran (maize), cereals, cereals (breakfast), chips (maize), chips (tortilla), flakes (corn), flour (maize), food (baby), foodstuff, grits (maize), Incaparina, maize, maize fiber, maize starch, masa, meal (maize), muffin mix, pancake, popcorn, rice, snacks, wheat

Fumonisin B₁, Hydrolyzed (HBF₁) incidence: 5/7, conc. range: 10–50 µg/kg, \varnothing conc.: 22 µg/kg, country: Mexico³⁶⁴ incidence: 44/48*, conc. range: 8–204 µg/kg, \varnothing conc.: 61.7 µg/kg, country: USA/Mexico⁴⁰⁹, *white

incidence: 4/4*, conc. range: 16–103 μg/kg, Ø conc.: 66.3 μg/kg, country: USA/Mexico⁴⁰⁹, *yellow

incidence: ?/73*, conc. range: 400–185,100 µg/kg**, country: USA⁶⁶⁸, *from Guatemala, **dw

see also chips (tortilla), maize, masa

Fumonisins (B_1, B_2, B_3)

incidence: $6/20^*$, conc. range: $10-31~\mu g/kg$, country: UK^{383} , *includes tacos and enchiladas

see also bran (maize), cereals (breakfast), flour, flour (maize), germ (maize), grains, grits (maize), maize, maize-based thickeners, popcorn, snacks

Fumonisins

incidence: 4?/5, conc. range: ≤800 μg/kg, country: USA³⁵⁷ see also beer, bread, cereal (infant), chips

see also beer, bread, cereal (infant), chips (tortilla), flakes (corn), flour (maize), grits (maize), maize, maize pops cereal, maize products, maize starch, maize (infant cream corn), meal (maize), muffin mix, pasta, popcorn, porridge, products, sorghum

Triticale may contain the following mycotoxins:

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Ergocornine

incidence: $2/2^*$, conc. range: $20-26~\mu g/kg$, \varnothing conc.: $23~\mu g/kg$, country: Canada⁸⁰⁶, *mix see also bread, flour (rye), flour (wheat), pancake

ERGOCRISTINE

incidence: $2/2^*$, conc. range: $88-99 \mu g/kg$, \varnothing conc.: $93.5 \mu g/kg$, country: Canada⁸⁰⁶, *mix see also bread, flour (rye), flour (wheat), pancake

ERGOMETRINE

incidence: $2/2^*$, conc. range: 15–16 µg/kg, \varnothing conc.: 15.5 µg/kg, country: Canada⁸⁰⁶, *mix see also bread, flour (rye), flour (wheat), pancake

Ergosine

incidence: $2/2^*$, conc. range: 13–18 µg/kg, \varnothing conc.: 15.5 µg/kg, country: Canada⁸⁰⁶, *mix see also bread, flour (rye), flour (wheat), pancake

Ergotamine

incidence: 2/2*, conc. range: 41–53 µg/kg, Ø conc.: 47 µg/kg, country: Canada⁸⁰⁶, *mix see also bread, flour (rye), flour (wheat), pancake

α -Ergokryptine

incidence: 2/2*, conc. range: 20–29 μg/kg, Ø conc.: 24.5 μg/kg, country: Canada⁸⁰⁶, *mix see also bread, flour (rye), flour (wheat), pancake

Moniliformin

incidence: 3/3* **, conc. range:

2400–5100 μg/kg, Ø conc.: 3533 μg/kg, country: Poland⁴⁹³, *Fdk, **ncac incidence: 1/1* **, conc.: 250 μg/kg, country: Poland⁴⁹³, *hlk, **ncac incidence: 3/3* ** ***, conc. range: 2600–15,700 μg/kg, Ø conc.: 8700 μg/kg, country: UK⁵²⁴, *Fdk, **from Poland, ***ncac see also barley, corn on the cob, flakes (corn), flour (maize), foodstuff, grits (maize), maize, maize-based thickeners, meal (maize), oats, popcorn, rye, snacks, wheat

Tubers may contain the following mycotoxins:

Aflatoxins

incidence: 6/59*, conc. range: $>30-\leq440 \mu g/kg$, country: Philippines³², *ubi, gabi, tugi, singkamas, sweet potatoes see also beans, candy (peanut), candy (pistachio), cassava, figs, flour (maize), grain mixtures, grains, maize, maize dough, maize products, melon seeds, millet, nuts, nuts (almond), nuts (brazil), nuts (peanut), nuts (peanut butter), nuts (peanut mix), nuts (peanut products), nuts (pecan), nuts (pistachio), nuts (walnut), nuts and seeds, paste (peanut), paste (pipian), peas, rice, sauce (leaf), snacks, sorghum, spices, spices (chilli), spices (cumin), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper), spices (tandoori), teff, wheat

Tugi

see Tubers

Tulum cheese

see Cheese

Turkey may contain the following mycotoxins:

OCHRATOXIN A

incidence: 10/17, conc. range: ≤0.11 µg/kg, Ø conc.: 0.02 μg/kg, country: Denmark⁶²⁴ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley),

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gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, ligourice, ligourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, vegetables, vinegar, wheat, wine

Turkey liver

see Liver (turkey)

Turkish white cheese

see Cheese

Turmeric

see Spices (turmeric)

Ubi

see Tubers

Umgombothi

see Beer

Unripe spelt grain

see Grains

Utshwala

see Beer

Vegetables may contain the following mycotoxins:

AFLATOXIN B₁

incidence: 3/12*, conc. range: 7–28 µg/kg, Ø conc.: 20 µg/kg, country: Egypt162, *dried see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olive, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks,

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sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), wheat, wine

Aflatoxins (B₁, B₂, G₁, G₂) incidence: 1/140*, max. conc.: 46 µg/kg, \varnothing conc.: 30 µg/kg, country: Thailand ¹⁶³, *fresh incidence: 2/100*, conc. range: 2–20 µg/kg (2 sa), >20 µg/kg (1 sa), country: Uruguay ⁷⁸⁷, *dried

see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (figs), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, wheat

OCHRATOXIN A

incidence: 6/7* **, conc. range: 245–7444 µg/kg, country: Tunisia⁶³⁴, *dried, **chickpea, bean, lentil see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa

powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vinegar, wheat, wine

ZEARALENONE

incidence: 1/99*, conc.: >200 μg/kg, country: Uruguay⁷⁸⁷, *dried Vegetables 444

see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts (almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, wheat

Vermouth

see Wine

Vine fruit

OCHRATOXIN A

see Currants as well as raisins as well as sultanas

Vinegar may contain the following mycotoxins:

incidence: 1/18* **, conc.: <0.01 μg/l,

country: Germany⁶³⁹, *and imported?, **apple and fruit incidence: $19/38^*$ **, conc. range: $\leq 1.9 \mu g/l$, country: Germany⁶³⁹, *and imported?, **wine incidence: 24/29* **, conc. range: <4.35 μg/l, country: Germany⁶³⁹, *and imported?, **balsamico incidence: 15/15*, conc. range: 0.008-0.252** μg/l, country: France⁶⁴³, *and three balsamico, **balsamico see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate

cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, wheat, wine

PATULIN

incidence: 1/2, conc.: 14.2 μg/l, country: Taiwan⁷⁰⁷

see also apple cider, apple flavor, apples (stewed fruit), berries (blueberry), berries (lingnonberry), berries (mulberry), berries (raspberry), berries (strawberry), cassava, cheese, food (baby), fruit products, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (pear), fruits (plum), jam, jam (apple), juice, juice (apple), juice (apple-acerola), juice (apple, concentrate), juice (cherry), juice (currant), juice (fruit), juice (grape), juice (orange), juice (peach), juice (pear), must, pulp (plum), syrup (apple)

Walnuts

see Nuts (walnut)

Wensleydale cheese

see Cheese

Wheat may contain the following mycotoxins:

Aflatoxin B_1

incidence: 125?/501, conc. range: $1-10 \mu g/kg$ (25 sa), $>10-20 \mu g/kg$ (14 sa), $>20-50 \mu g/kg$ (5 sa), $>50-100 \mu g/kg$ (2 sa), $>100-500 \mu g/kg$ (2 sa), $>500-2000 \mu g/kg$ (2 sa), country: Cuba⁴⁷

incidence: 1/26, conc.: 1387.5 μ g/kg, country: Egypt¹⁴⁴

incidence: 18/579*, conc. range: ≤18 μg/kg, country: USSR¹⁹¹, *imported

incidence: 16/1100, conc. range: ≤2.8 μg/kg,

country: USSR¹⁹¹

incidence: 17/79*, conc. range:

34–1240 μg/kg, country: India³⁹⁰, *ncac incidence: 26/37, conc. range: 16–1348 μg/kg,

country: India³⁹⁸

incidence: 19/50*, conc. range:

85–1248 μg/kg, country: India⁴⁷⁷, *ncac

incidence: 23/31* **, conc. range:

0.8–17 μg/kg, \varnothing conc.: 4.54 μg/kg, country:

USA⁷⁷⁰, *scabby, **ncac

see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas,

dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olive, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetable, wine

AFLATOXIN B₂

incidence: 1/26, conc.: 101.6 μg/kg, country: Egypt¹⁴⁴

see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram),

flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (cilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, sunflower seeds, wine

AFLATOXINS (B_1 , B_2 , G_1 , G_2) incidence: 29/123* **, conc. range: 2–20 µg/kg (28 sa), >20 µg/kg (1 sa), country: Uruguay⁷⁸⁷, *and by-products, **ncac

see also barley, beans, bread, cereals, cocoa beans, cowpeas, figs, fish/shrimp, flour (maize), food, fruits, grains, herbs and spices, lentils, maize, noodles, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil, oil seeds, paste (figs), peas, phane, poppadoms, rice, sago, sauce (peanut), sesame seeds, snacks, sorghum, spice powder, spices (chilli), spices (chilli pickle), spices (chilli powder), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (fenugreek), spices (garlic pickle), spices (garlic / onions), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper, cayenne), sunflower seeds, vegetables

Aflatoxins

incidence: 10/30*, conc. range: 15–263 µg/kg AFB₁, 10–107 μg/kg AFB₂, 12–95 μg/kg AFG₁, 22–90 μg/kg AFG₂, country: India⁷⁸⁴, *ncac incidence: 1/209*, conc.: tr, country: Saudi Arabia⁸⁴⁹, *ncac see also beans, candy (peanut), candy (pistachio), cassava, figs, flour (maize), grain mixtures, grains, maize, maize dough, maize products, melon seeds, millet, nuts, nuts (almond), nuts (brazil), nuts (peanut), nuts (peanut butter), nuts (peanut mix), nuts (peanut products), nuts (pecan), nuts (pistachio), nuts (walnut), nuts and seeds, paste (peanut), paste (pipian), peas, rice, sauce (leaf), snacks, sorghum, spices, spices (chilli), spices (cumin), spices (ginger), spices (nutmeg), spices (paprika), spices (pepper), spices (tandoori), teff, tubers

ALTENUENE

incidence: 2/15, conc. range: ≤1480 µg/kg, country: Egypt²⁹¹ see also barley, fruits (apple), maize, olives, ragi, rice, sorghum, tomatoes

ALTERNARIOL

incidence: 4/15, conc. range: ≤2320 μg/kg, country: Egypt²⁹¹ incidence: 20/22* **, conc. range: 116–731 μg/kg, country: Japan³⁰⁹,*from China, **weather-damaged see also bran, fruits (apple), fruits (mandarin fruit), juice (apple, concentrate), olives, spices (pepper), sunflower seeds, tomatoes

ALTERNARIOL METHYL ETHER incidence: 2/15, conc. range: ≤1890 μg/kg, country: Egypt²⁹¹ incidence: 21/22* **, conc. range: 52–1426 μg/kg, country: Japan³⁰⁹, *from China, **weather-damaged see also barley, bran, fruits (apple), fruits (mandarin fruit), fruits (melon), juice (apple, concentrate), olives, ragi, sorghum, spices (pepper), sunflower seeds, tomatoes

Altertoxin-I

incidence: 2/15, conc. range: ≤1678 μg/kg, country: Egypt²⁹¹ see also fruits (apple), sorghum

Beauvericin incidence: 11/11* **, conc. range: tr, country: Finland⁴⁵⁹, *spring, **ncac incidence: 2/3* **, conc. range: tr, country: Finland⁴⁵⁹, *winter, **ncac incidence: 13/13* **, conc. range: 640–3500 µg/kg, Ø conc.: 2089 µg/kg, country: Finland⁴⁹⁶, *Fdk, **ncac see also barley, maize, oats

CITRININ

incidence: 11/11* **, conc. range: tr–4800 μg/kg, country: UK⁸⁰⁷, *moldy, **ncac incidence: 4/27*, conc. range: 10–420 μg/kg, Ø conc.: 133 μg/kg, country: Bulgaria⁸²⁸, *BEN area see also angkak (red mold rice), barley, cereals, cheese, food, food colorant, fruits (apple), maize, maize dough, meal (copra), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), oil seed rape, olives, rice, spices, spices (cardamom), spices (coriander), spices (cumin), spices (fennel),

Deoxynivalenol

incidence: 5/33, conc. range: ≤65 μg/kg, country: Canada²⁶ incidence: 53/84*, conc. range: ≤202 μg/kg, Ø conc.: 64 μg/kg, country: Lithuania²⁰³,

spices (pepper), spices (turmeric)

incidence: $28/46^*$, conc. range: $tr-580~\mu g/kg$, \varnothing conc.: $30~\mu g/kg$, country: France²⁰⁴, *ncac incidence: $62/69^*$, conc. range: $tr-650~\mu g/kg$, \varnothing conc.: $80~\mu g/kg$, country: France²⁰⁴, *ncac incidence: 24/27, conc. range: $5-100~\mu g/kg$ (22~sa), $100-500~\mu g/kg$ (2~sa), country: Finland²¹⁹

incidence: 9/16, conc. range: \leq 445 µg/kg, \varnothing conc.: 138 µg/kg, country: Germany²⁴⁴ incidence: 7/17, conc. range: \leq 128 µg/kg, \varnothing conc.: 65.9 µg/kg, country: Morocco²⁶⁷ incidence: 21/25, conc. range: 9–193 µg/kg, \varnothing conc.: 83 µg/kg, country: China²⁸⁵ incidence: 8/15, conc. range: 15–125 µg/kg, \varnothing conc.: 40 µg/kg, country: China²⁸⁵ incidence: 32/44*, conc. range: 101–1000 µg/kg (26 sa), 1001–5000 µg/kg

(6 sa), country: Portugal³¹⁵, *and fruits for breakfast incidence: 24/25*, conc. range: <371 µg/kg, Ø conc.: 104 μg/kg, country: Poland³²⁴, *ncac incidence: 8/8, conc. range: 16-51,450 µg/kg, \emptyset conc.: 7043.8 µg/kg, country: China³⁴² incidence: 28/28*, conc. range: 150-8800 μg/kg, Ø conc.: 3030 μg/kg, country: USA³⁷³, *ncac incidence: 33/44*, conc. range: 200–30,000 μg/kg, Ø conc.: 3476 μg/kg, country: Argentina³⁸⁹, *ncac incidence: 524/1056*, conc. range: 30–2400 μg/kg, \emptyset conc.: 403.2 μg/kg, country: Argentina³⁹⁵, *ncac incidence: 1/12, conc.: 1900 µg/kg, country: incidence: 5/40, conc. range: 103-287 µg/kg, country: Egypt⁴²⁷ incidence: 1/4, conc.: 10-30 μg/kg, country: Germany⁴³² incidence: 1/17, conc.: 50 μg/kg, country: Poland⁴³⁹ incidence: 32/40, conc. range: 300–4500 μg/kg, Ø conc.: 1060 μg/kg, country: Argentina⁴⁴⁰ incidence: 104/150* **, conc. range: ≤11,660 µg/kg, ∅ conc.: 1540 µg/kg, country: Germany⁴⁴¹, *cg, **ncac incidence: 25/46* **, conc. range: <4220 µg/kg, \varnothing conc.: 760 µg/kg, country: Germany⁴⁴¹, *og, **ncac incidence: 226/283*, conc. range: <5175 µg/kg, \varnothing conc.: 100 µg/kg, country: UK442, *ncac incidence: 54/57* **, conc. range: 200-9000 μg/kg, Ø conc.: 3600 μg/kg, country: USA⁴⁴⁶, *winter, **ncac incidence: 21/81* **, conc. range: ≤9330 µg/kg, country: USA⁴⁴⁷, *winter and spring, **ncac incidence: 2/17*, conc. range: 90–280 µg/kg, Ø conc.: 185 μg/kg, country: Japan⁴⁴⁸, *ncac incidence: 39/78*, conc. range: <102 μg/kg, Ø conc.: 21 μg/kg, country: Poland⁴⁵², *ncac incidence: 37/40, conc. range: 8–356 μg/kg, Ø

conc.: 81 µg/kg, country: Finland⁴⁵⁵

incidence: 8/10*, conc. range: 10–68 μg/kg, Ø conc.: 35 μg/kg, country: Finland⁴⁵⁵, *from

incidence: 412/560*, conc. range: Canada, Germany, Hungary, Saudi-Arabia, 10-5670 μg/kg, country: Canada⁵²¹, *soft incidence: 15/18*, conc. range: tr-4700 µg/kg, winter country: Japan⁴⁶¹, *ncac incidence: 86/258* **, conc. range: incidence: 501/737*, conc. range: 10–1510 μg/kg, country: Canada⁵²¹, *soft 30–450 μg/kg, country: Norway⁴⁶⁴, *ncac spring, **ncac incidence: 4/4*, conc. range: <30-1100 μg/kg, incidence: 270/1493*, conc. range: country: Norway⁴⁶⁵, *ncac 10–10,500 μg/kg, country: Canada⁵²¹, *hard incidence: 24/169*, conc. range: incidence: 145/1573* **, conc. range: >100-7240 μg/kg, country: USA⁵²⁵, *hard red >20– 350 µg/kg, \varnothing conc.: 53 µg/kg, country: Norway466, *for food and feed winter, **ncac incidence: 2/10*, conc. range: 18–95 µg/kg, Ø incidence: 9/13*, conc. range: 30-1280 μg/kg, conc.: 56.5 μg/kg, country: Korea⁴⁶⁹, *for Ø conc.: 513 μg/kg, country: Japan⁵²⁸, *ncac food and feed incidence: 32/53*, conc. range: 8-3193 µg/kg, incidence: 5/9*, conc. range: 6-173 µg/kg, \emptyset conc.: 349.5 µg/kg, country: Norway⁵²⁹, country: Korea⁴⁷⁰, *husked, **ncac *ncac incidence: 19/22* **, conc. range: 76-1654 incidence: 87/222*, Ø conc.: 488 μg/kg, country: Japan⁵³⁰, *ncac μg/kg, Ø conc.: 452.8 μg/kg, country: The Netherlands⁴⁷⁴, *and from Canada, France, incidence: 3/13* **, conc. range: 66–740 µg/kg, Ø conc.: 299 µg/kg, country: Germany, UK, **ncac incidence: 7/15*, conc. range: 9–309 µg/kg, Ø Japan⁵³², *and from Canada, USA, **ncac conc.: 59 µg/kg, country: China⁴⁹⁷, *high EC incidence: 20/31* **, conc. range: 4–312 μg/kg, \varnothing conc.: 31 μg/kg, country: incidence: ?/15*, conc. range: 7–36 µg/kg, ∅ Japan⁵³³, *from UK, **ncac conc.: 18 μg/kg, country: China⁴⁹⁷, *low EC incidence: 1/2* **, conc.: 26 µg/kg, country: Japan⁵³³, *from Scotland, **ncac area incidence: 5/5*, conc. range: 343-1051 µg/kg, incidence: 18/18* **, conc. range: Ø conc.: 514 μg/kg, country: China⁴⁹⁸, *high 704-6920 μg/kg, Ø conc.: 3812 μg/kg, EC area country: Japan⁵³⁴, *scabby, **ncac incidence: 5/5*, conc. range: 73-410 µg/kg, Ø incidence: 13/13* **, conc. range: conc.: 184 µg/kg, country: China498, *low EC 20–512 μg/kg, \emptyset conc.: 115 μg/kg, country: Japan⁵³⁶, *from The Netherlands, **ncac incidence: 45/51* **, conc. range: incidence: 9/10*, conc. range: 25-3475 µg/kg, ≤1200 µg/kg, \varnothing conc.: 420 µg/kg, country: Ø conc.: 1257 μg/kg, country: Japan⁵³⁷, *from Germany⁴⁹⁹, *cg, **ncac Canada incidence: 38/50* **, conc. range: incidence: $3/20^*$ **, \varnothing conc.: 15 µg/kg, country: Japan⁵³⁸, *from Argentina, **ncac ≤1000 µg/kg, \varnothing conc.: 486 µg/kg, country: Germany⁴⁹⁹, *eg, **ncac incidence: 3/4* **, Ø conc.: 360 μg/kg, country: Japan⁵³⁸, *from Poland, **ncac incidence: 32/199, con. range: 20-400 µg/kg, country: UK504 incidence: 1/2* **, conc.: 211 µg/kg, country: incidence: 23/33*, conc. range: Japan⁵³⁸, *from Bulgaria, **ncac 20–1320 μg/kg, country: UK⁵⁰⁴, *from USA, incidence: 4/4* **, Ø conc.: 4284 μg/kg, country: Japan⁵³⁸, *from China, **ncac Canada and different European countries incidence: 1/2* **, conc.: 86 µg/kg, country: incidence: 11/11* **, conc. range: Japan⁵³⁸, *from France, **ncac 15,900–39,600 μg/kg, Ø conc.: 28,900 μg/kg, country: Poland⁵¹², *Fdk, **ncac incidence: 2/8* **, Ø conc.: 712 μg/kg, incidence: 10/10* **, conc. range: country: Japan⁵³⁸, *from Germany, **ncac incidence: 1/1* **, conc.: 9 µg/kg, country: 400–3600 μg/kg, Ø conc.: 1700 μg/kg, country: Poland⁵¹², *hlk, **ncac Japan⁵³⁸, *from Greece, **ncac

incidence: 2/2* **, Ø conc.: 671 μg/kg, incidence: 17/17*, conc. range: country: Japan⁵³⁸, *from Hungary, **ncac 29–11,700 μg/kg, Ø conc.: 1624 μg/kg, incidence: 1/12* **, conc.: 120 µg/kg, country: Japan⁵⁷³, *ncac country: Japan⁵³⁸, *from Italy, **ncac incidence: 1/1* ** ***, con.: 1820 μg/kg, incidence: 1/10* **, conc.: 61 μg/kg, country: country: Papua, New Guinea⁵⁷⁴, *from Japan⁵³⁸, *from Nepal, **ncac Australia, **coarse ground, ***ncac incidence: 1/7* **, con.: 5 μg/kg, country: incidence: 6/27*, conc. range: 20–60 µg/kg, Ø Japan⁵³⁸, *from Yemen, **ncac conc.: 35 µg/kg, country: Japan⁶¹⁰, *ncac incidence: 8/8* **, conc. range: 90-450 μg/kg, incidence: 105/105* **, conc. range: Ø conc.: 218 μg/kg, country: Canada⁵³⁹, *soft <100 μg/kg (37 sa), 100–250 μg/kg (39 sa), white winter, **ncac 250-500 μg/kg (24 sa), 500-1000 μg/kg incidence: 3/3*, conc. range: 350-910 μg/kg, (4 sa), 1020 μg/kg (1 sa), Ø conc.: 204 μg/kg, Ø conc.: 553 μg/kg, country: Canada 540, country: Germany⁷⁶⁰, *o, **ncac *ncac incidence: 2/4, conc. range: 5-50 µg/kg incidence: 1/6*, con.: 1200 μg/kg, country: (2 sa), country: Finland⁷⁶⁵ Argentina⁵⁴², *ncac incidence: 1/18*, conc.: 400 μg/kg, country: incidence: 41/276*, conc. range: ≤5500 µg/kg, Brazil⁷⁶⁶, *and from Argentina, Uruguay country: USA⁵⁴³, *hard red winter incidence: 4/20*, conc. range: 470-590 µg/kg, incidence: 333/483* **, conc. range: Ø conc.: 550 μg/kg, country: Brazil⁷⁶⁷, *ncac ≤18,400 µg/kg, country: USA⁵⁴⁴, *includes incidence: 31/33* **, conc. range: hard spring, hard winter, mixed, soft winter, 120–5500 μg/kg, Ø conc.: 1897 μg/kg, soft white, **ncac country: USA⁷⁷⁰, *scabby, **ncac incidence: 321/413* **, conc. range: incidence: 10/11*, conc. range: ≤215 µg/kg, ≤40,300 µg/kg, country: USA⁵⁴⁴, *includes country: France⁷⁷⁶, *cg winter, spring, **ncac incidence: 6/11*, conc. range: ≤494 μg/kg, incidence: 13/42*, conc. range: 7-309 µg/kg, country: France⁷⁷⁶, *og Ø conc.: 94.7 μg/kg, country: Poland⁵⁴⁸, incidence: 150/177, conc. range: 20-100 μg/kg (107 sa), 100-200 μg/kg incidence: 9/15* **, conc. range: (25 sa), 200-300 μg/kg (7 sa), 300-400 μg/kg 9–1285 μg/kg, Ø conc.: 335 μg/kg, country: (4 sa), 400–500 μg/kg (3 sa), 500–600 μg/kg Poland⁵⁴⁸, *from different European (1 sa), 600–700 μg/kg (1 sa), 900–1000 μg/kg countries, **ncac (2 sa, with a maximum of 1000 μg/kg), incidence: 7/10* **, conc. range: country: Switzerland⁷⁷⁹ 37–340 μ g/kg, \varnothing conc.: 175 μ g/kg, country: incidence: 28/28*, conc. range: 20-100 µg/kg Germany⁵⁶², *and from Italy, USA and (17 sa), 100–200 μg/kg (4 sa), 400–500 μg/kg unknown origin, **o (2 sa), $>1000 \mu g/kg$ (5 sa, with a maximum incidence: 2/2* **, conc. range: 36-370 μg/kg, of 3100 μg/kg), country: Switzerland⁷⁷⁹, Ø conc.: 203 μg/kg, country: Germany⁵⁶², *imported *and from Italy, USA and unknown origin, incidence: 65/116* **, conc. range: 80–500 μg/kg (56 sa), 500–1000 μg/kg (5 sa), incidence: 94/140, conc. range: ≤1800 μg/kg, $>1000 \mu g/kg (4 sa)$, country: Uruguay⁷⁸⁷, Ø conc.: 180 μg/kg, country: Bulgaria⁵⁶⁴ *and by-products, **ncac incidence: 821/821* **, conc. range: incidence: 1/58, conc.: 310 µg/kg, country: 210–30,400 μg/kg, country: Italy⁵⁶⁶, *from India⁷⁸⁸ Poland, **ncac incidence: 132/247, conc. range: incidence: 4/10*, conc. range: 110-950 μg/kg, Ø conc.: 378 μg/kg, country: Poland⁷⁹³, *ncac \leq 2650 µg/kg, country: USA⁵⁶⁹ incidence: ?/39*, conc. range: 10,500 µg/kg, incidence: 82/151*, conc. range: country: Iran⁸⁷¹, *ncac 5–1620 μg/kg, country: Japan⁵⁷¹, *ncac

see also acha, barley, batter, beans, beer, biscuits, bran (oat), bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), chips (maize), crackers, croissant, figazzas, flakes (corn), flakes (oat), flakes (wheat), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), germ (wheat), grains, grits (barley), grits (maize), grits (wheat), groats (oat), Job's-tears, knäckebröd, libritos, maize, malt (barley), malt (wheat), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), millet, muesli, noodles, oat products, oats, pancake, popcorn, rice, rye, snacks, sorghum, soybeans, spices (chilli powder), spices (coriander), spices (garlic), spices (ginger)

Acetyldeoxynivalenol

incidence: $12/25^*$, conc. range: $\leq 38 \mu g/kg$, \varnothing conc.: 16 µg/kg, country: Poland³²⁴, *ncac see also flour (wheat)

3-Acetyldeoxynivalenol

incidence: 1/27, conc. range: 5-100 µg/kg

(1 sa), country: Finland²¹⁹

incidence: 1/8, conc.: 2544 µg/kg, country:

China³⁴²

incidence: 22/933*, Ø conc.: 596.12 μg/kg,

country: Argentina³⁹⁵, *ncac

incidence: 9/40, conc. range: 12–67 µg/kg, Ø

conc.: 31 µg/kg, country: Finland⁴⁵⁵

incidence: 5/5*, conc. range: 15–731 µg/kg, Ø conc.: 363 µg/kg, country: China⁴⁹⁸, *high EC

incidence: 9/11* **, conc. range:

300-3000 μg/kg, Ø conc.: 1420 μg/kg,

country: Poland⁵¹², *Fdk, **ncac

incidence: 3/140, conc. range: $\leq 104 \mu g/kg$, \varnothing conc.: 70 µg/kg, country: Bulgaria⁵⁶⁴

incidence: 657/821* **, conc. range:

540–29,540 μg/kg, country: Italy⁵⁶⁶, *from

Poland, **ncac

incidence: 10/17*, conc. range: tr-920 μg/kg,

country: Japan⁵⁷³, *ncac

incidence: 1/11*, conc.: 17 µg/kg, country:

France⁷⁷⁶, *og

see also barley, bread, cereals, cereals (breakfast), flakes (oat), flour (maize), flour (wheat), food, food (baby), grits (maize), maize, oat products, oats, rice, rye, snacks

15-ACETYLDEOXYNIVALENOL

incidence: 2/283*, conc. range: 14-22 µg/kg, Ø conc.: 18 μg/kg, country: UK⁴⁴², *ncac incidence: 1/13*, conc.: 130 μg/kg, country: Japan⁵²⁸, *ncac

incidence: 1/140, conc.: 99 µg/kg, country:

Bulgaria⁵⁶⁴

incidence: 2/17*, conc. range: tr-10 µg/kg, country: Japan⁵⁷³, *ncac

see also barley, bran (oat), bran (wheat), cereals (breakfast), flour (maize), flour (wheat), food, grits (maize), maize, noodles, oat products, oats, snacks

Enniatin a

incidence: 6/11* **, conc. range: tr-490 μg/kg, country: Finland⁴⁵⁹, *spring, **ncac see also barley

ENNIATIN A₁

incidence: 11/11* **, conc. range: tr-940 μg/kg, country: Finland⁴⁵⁹, *spring,

incidence: 1/3* **, conc.: 6 μg/kg, country:

Finland⁴⁵⁹, *winter, **ncac

incidence: 10/13* **, conc. range:

tr–6900 μg/kg, country: Finland⁴⁹⁶, *Fdk,

**ncac

see also barley, oats, rye

Enniatin B

incidence: 11/11*, conc. range: tr-18,300 μg/kg, country: Finland⁴⁵⁹, *spring, **ncac

incidence: 3/3* **, conc. range: tr-170 µg/kg, country: Finland⁴⁵⁹, *winter, **ncac

incidence: 12/13* **, conc. range:

tr-4800 µg/kg, country: Finland⁴⁹⁶, *Fdk,

**ncac

see also barley, oats, rye

ENNIATIN B₁

incidence: 11/11*, conc. range: tr-5100 µg/kg, country: Finland⁴⁵⁹, *spring, **ncac

incidence: 3/3* **, conc. range: tr–39 μg/kg, country: Finland⁴⁵⁹, *winter, **ncac incidence: 8/13* **, conc. range: tr–1900 μg/kg, country: Finland⁴⁹⁶, *Fdk, **ncac see also barley, oats, rye

ERGOT ALKALOIDS

incidence: $10/26^*$ **, conc. range: $150-450 \mu g/kg$ (9 sa), $450-750 \mu g/kg$ (1 sa), country: Uruguay⁷⁸⁷, *and by-products, **ncac see also food (infant)

Fumonisin B₁

incidence: 8/17*, conc. range: 200-8800 μg/kg, Ø conc.: 2900 μg/kg, country: Spain³⁵⁵, *ncac incidence: 5/5, conc. range: 2500-6000 µg/kg, Ø conc.: 4200 μg/kg, country: Zimbabwe³⁶⁵ see also arepas, asparagus, barley, batter, beans, beer, bran (maize), bread, cake (rice), cereals, cereals (breakfast), chamomile, chips (maize), chips (tortilla), flakes (corn), flour (maize), food, food (baby), foodstuff, grits (maize), Incaparina, leaves, maize, maize fiber, maize muffin, maize products, maize silk, maize starch, masa, meal (maize), meal (sorghum), milk, muffin mix, nuts (peanut), pancake, popcorn, rapoko, rice, snacks, sorghum, soybeans, syrup (sorghum), tea, tortillas

Fumonisin B₂

Spain³⁵⁵, *ncac see also arepas, asparagus, barley, batter, beer, bran (maize), cereals, cereals (breakfast), chips (maize), chips (tortilla), flakes (corn), flour (maize), food (baby), foodstuff, grits (maize), Incaparina, maize, maize fiber, maize starch, masa, meal (maize), muffin mix, pancake, popcorn, rice, snacks, tortillas

incidence: 1/17*, conc.: 200 µg/kg, country:

HT-2 Toxin

incidence: 20/84*, conc. range: ≤110 μg/kg, Ø conc.: 34 μg/kg, country: Lithuania²⁰³, *ncac incidence: 82/283* conc. range: ≤193 μg/kg

incidence: 82/283*, conc. range: \leq 193 µg/kg, \varnothing conc.: 25 µg/kg, country: UK⁴⁴², *ncac

incidence: 2/169*, conc. range: 20 µg/kg, Ø conc.: 20 µg/kg, country: Norway⁴⁶⁶, *for food and feed incidence: 24/45* **, conc. range: 60-520 μg/kg, country: Canada⁵²¹, *durum, **ncac incidence: 1/17* **, conc.: 100 μg/kg, country: Canada⁵²¹, *soft winter, **ncac incidence: 2/108* **, conc. range: 200–310 μg/kg, Ø conc.: 255 μg/kg, country: Canada⁵²¹, *western hard, **ncac incidence: 1/11*, conc.: 456 µg/kg, country: France⁷⁷⁶, *og see also barley, bran (oat), bran (wheat), bread, cereal (baby), cereals, cereals (breakfast), flakes (oat), flour (maize), flour (wheat), food, food (baby), germ (wheat), grits (maize), groats (oat), maize, noodles, nuts (hazelnut), oat products, oats, pumpkin seeds, rye, spices (chilli powder), spices (curry), sunflower seeds

Moniliformin

incidence: 7/25*, conc. range: <198 µg/kg, Ø conc.: 63 µg/kg, country: Poland³²⁴, *ncac incidence: 48/78*, conc. range: ≤495 µg/kg, Ø conc.: 182 μg/kg, country: Poland⁴⁵², *ncac incidence: 3/4* **, conc. range: 58-810 μg/kg, Ø conc.: 372.7 μg/kg, country: Finland⁴⁵⁸, *spring, **ncac incidence: 1/3* **, conc.: <20 μg/kg, country: Finland⁴⁵⁸, *winter, **ncac incidence: 9/11*, conc. range: tr-810 μg/kg, country: Finland⁴⁵⁹, *spring, **ncac incidence: 5/5* **, conc. range: 7200–25,200 μg/kg, Ø conc.: 15,900 μg/kg, country: Poland493, *Fdk, **ncac incidence: 5/5* **, conc. range: 250–700 μg/kg, Ø conc.: 420 μg/kg, country: Poland493, *hlk, **ncac incidence: 6/6* ** ***, conc. range: 500–17,100 μg/kg, Ø conc.: 8660 μg/kg, country: UK⁵²⁴, *Fdk,**from Poland, ***ncac incidence: 63/83*, conc. range: tr-950 µg/kg, country: Norway⁵⁵⁰, *ncac incidence: 4/10*, conc. range: 2.5-200 µg/kg, Ø conc.: 128 μg/kg, country: Poland⁷⁹³, *ncac see also barley, corn on the cob, flakes (corn), flour (maize), foodstuff, grits

*ncac

(maize), maize, maize-based thickeners, meal (maize), oats, popcorn, rye, snacks, triticale

Neosolaniol

incidence: 27/35*, conc. range: 144.6–853.7 μg/kg, \emptyset conc.: 476 μg/kg, country: Iran⁵⁷⁰, *ncac see also cereals (breakfast), maize, oat products, sorghum, spices (curry), spices (ginger)

4–670 μg/kg, Ø conc.: 101 μg/kg, country: Nivalenol Japan⁵³³, *from UK, **ncac incidence: 9/25, conc. range: 13–50 µg/kg, Ø conc.: 29 µg/kg, country: China²⁸⁵ incidence: 3/15, conc. range: 4–22 µg/kg, Ø conc.: 12 µg/kg, country: China²⁸⁵ incidence: 19/25*, conc. range: ≤453 µg/kg, Ø conc.: 97 μg/kg, country: Poland³²⁴, *ncac incidence: 8/8, conc. range: 10-6935 µg/kg, Ø conc.: 907.8 µg/kg, country: China³⁴² incidence: 2/17, conc. range: 100 μg/kg, Ø conc.: 100 µg/kg, country: Poland439 incidence: 226/283*, conc. range: ≤428 µg/kg, Ø conc.: 42 μg/kg, country: UK⁴⁴², *ncac incidence: 4/17*, conc. range: 20-580 µg/kg, country: Japan⁴⁴⁸, *ncac incidence: 23/78*, conc. range: \leq 99 µg/kg, \varnothing conc.: 34 µg/kg, country: Poland⁴⁵², *ncac incidence: 15/18*, conc. range: tr-7800 μg/kg, country: Japan⁴⁶¹, *ncac incidence: 9/10*, conc. range: 28-632 µg/kg, Ø conc.: 149.9 μg/kg, country: Korea⁴⁶⁹, *for food and feed incidence: 9/9* **, conc. range: 82–3169 µg/kg, \varnothing conc.: 535 µg/kg, country: Korea⁴⁷⁰, *husked, **ncac incidence: 7/15*, conc. range: 13-216 µg/kg, Ø conc.: 15 μg/kg, country: China⁴⁹⁷, *low incidence: 5/5*, conc. range: 17–373 µg/kg, Ø conc.: 183 µg/kg, country: China498, *high EC

incidence: 3/5*, conc. range: 8–13 μg/kg, Ø

conc.: 10 μg/kg, country: China⁴⁹⁸, *low EC

90-740 µg/kg, country: Canada⁵²¹, *durum,

incidence: 2/13*, conc. range: 40-1220 µg/kg, Ø conc.: 630 μg/kg, country: Japan⁵²⁸, *ncac

incidence: 9/41* **, conc. range:

Nova Scotia, Quebec hard, **ncac

area

incidence: 7/18* **, conc. range: 47–328 μg/kg, Ø conc.: 205 μg/kg, country: Japan⁵³⁴, *scabby, **ncac incidence: 12/13* **, conc. range: 7–203 μg/kg, Ø conc.: 38 μg/kg, country: Japan⁵³⁶, *from The Netherlands, **ncac incidence: 4/10*, conc. range: 4–40 μg/kg, Ø conc.: 23 µg/kg, country: Japan⁵³⁷, *from Canada incidence: 3/4* **, Ø conc.: 25 μg/kg, country: Japan⁵³⁸, *from Poland, **ncac incidence: 1/2* **, conc.: 32 µg/kg, country: Japan⁵³⁸, *from Bulgaria, **ncac incidence: $3/4^*$ **, \varnothing conc.: 162 µg/kg, country: Japan⁵³⁸, *from China, **ncac incidence: $2/2^*$ **, \varnothing conc.: 42 µg/kg, country: Japan⁵³⁸, *from France, **ncac incidence: 2/8* **, Ø conc.: 274 μg/kg, country: Japan⁵³⁸, *from Germany, **ncac incidence: 1/1* **, conc.: 2 μg/kg, country: Japan⁵³⁸, *from Greece, **ncac incidence: 1/2* **, conc.: 4 µg/kg, country: Japan⁵³⁸, *from Hungary, **ncac incidence: $5/10^*$ **, \varnothing conc.: 70 µg/kg, country: Japan⁵³⁸, *from Nepal, **ncac incidence: 37/42*, conc. range: 3-350 µg/kg, Ø conc.: 47.9 μg/kg, country: Poland⁵⁴⁸, *ncac incidence: 9/15* **, conc. range: 2-60 µg/kg, Ø conc.: 23 μg/kg, country: Poland⁵⁴⁸, *from different European countries, **ncac incidence: 34/35*, conc. range: 49.1-1119.1 μg/kg, Ø conc.: 577 μg/kg, country: Iran⁵⁷⁰, *ncac incidence: 100/151*, conc. range: 5–4390 μg/kg, country: Japan⁵⁷¹, *ncac

incidence: 53/53*, conc. range: 15-887 µg/kg,

260–1630 μg/kg, Ø conc.: 945 μg/kg, country:

Japan⁵³², *and from Canada, USA, **ncac

Ø conc.: 59.2 μg/kg, country: Norway⁵²⁹,

incidence: 111/222*, Ø conc.: 127 μg/kg,

country: Japan⁵³⁰, *ncac

incidence: 2/13* **, conc. range:

incidence: 17/31* **, conc. range:

Japan⁵⁷³, *ncac incidence: 14/27*, conc. range: 20-120 µg/kg, Ø conc.: 52.9 μg/kg, country: Japan⁶¹⁰, *ncac incidence: 2/20*, conc. range: 160-400 μg/kg, Ø conc.: 253 μg/kg, country: Brazil⁷⁶⁷, *ncac incidence: 10/11*, conc. range: ≤98 µg/kg, country: France⁷⁷⁶, *og incidence: 5/10*, conc. range: 15-1280 μg/kg, Ø conc.: 332 μg/kg, country: Poland⁷⁹³, *ncac incidence: 8/12*, conc. range: 6-35.3 µg/kg, Ø conc.: 16.3 μg/kg, country: Japan⁸⁴³, *imported see also barley, beer, biscuits, bran (wheat), bread, cake, cereal (baby), cereals, cereals (breakfast), flour, flour (barley), flour (maize), flour (rye), flour (wheat), food, germ (wheat), grits (maize), grits (wheat), Job's-tears, maize, malt (barley), meal (millet), millet, noodles, oat products, oats, rice, rye, snacks, sorghum, soybeans, spices (chilli sauce), spices (curry), spices (curry paste), spices (curry powder), spices (garlic), spices (ginger), spices (tandoori)

incidence: 17/17*, conc. range:

10–4390 μg/kg, Ø conc.: 669 μg/kg, country:

4-Acetylnivalenol

incidence: $3/13^*$, conc. range: $20 \mu g/kg$, \varnothing conc.: $20 \mu g/kg$, country: Japan⁵²⁸, *ncac incidence: $1/17^*$, conc.: tr, country: Japan⁵⁷³, *ncac see also barley, maize

OCHRATOXIN A

incidence: 188/405*, conc. range: ≤32 μg/kg, Ø conc.: 0.3 μg/kg**, country: Denmark²⁶⁵, *cg, **arithmetic mean incidence: 8/14*, conc. range: ≤1.6 μg/kg, Ø conc.: 0.3 μg/kg**, country: Denmark²⁶⁵, *og, **arithmetic mean incidence: 2/17, conc. range: ≤30.6 μg/kg, Ø conc.: 29.4 μg/kg**, country: Morocco²⁶⁷ incidence: 8/64*, conc. range: 0.1−137.3 μg/kg, Ø conc.: 17.9 μg/kg, country: Germany⁵⁷⁷, *ncac incidence: 3/39* **, conc. range: 0.48−1.2 μg/kg, Ø conc.: 0.83 μg/kg**, country: Poland⁵⁸⁷, *o, **ncac

incidence: 18/37* **, conc. range: 0.6–1024 μg/kg, Ø conc.: 267 μg/kg**, country: Poland588, *c, **ncac incidence: 8/34* **, conc. range: 0.8-1.6 μg/kg, Ø conc.: 1.17 μg/kg**, country: Poland⁵⁸⁸, *o, **ncac incidence: 3/36, conc. range: 0.12-0.5 µg/kg, Ø conc.: 0.29 μg/kg, country: Hungary⁵⁹³ incidence: 18/25*, conc. range: 1–5 μg/kg (9 sa), 5–20 μ g/kg (6 sa), >20 μ g/kg (3 sa), country: Czechoslovakia⁵⁹⁵, *ncac incidence: 283/402*, conc. range: 0.05-4.9 µg/kg (110 sa), 5-25 µg/kg (6 sa), >25 µg/kg (3 sa, with a maximum of 51 μg/kg), \emptyset conc.: 0.7 μg/kg**, country: Denmark⁶²⁵, *cg, **arithmetic mean incidence: 29/73*, conc. range: $0.05-4.9 \mu g/kg (25 sa), 5-25 \mu g/kg (3 sa),$ 36 μg/kg (1 sa), Ø conc.: 1.2 μg/kg**, country: Denmark⁶²⁵, *eg, **arithmetic mean incidence: 17/45* **, conc. range: 0.05–4.9 µg/kg (16 sa), 13 µg/kg (1 sa), Ø conc.: 0.9 μg/kg***, country: Denmark⁶²⁵, *imported, **cg, **arithmetic mean incidence: 3/40, conc. range: 12–55 µg/kg, Ø conc.: 34.3 µg/kg, country: Yugoslavia⁶²⁹ incidence: 43/44*, conc. range: 0.1–11,064 μg/kg, country: Tunisia⁶³⁴, *and derived food incidence: 6/8*, conc. range: 1-5 μg/kg (2 sa, with a maximum of 2 μg/kg), country: UK⁶³⁶, *and from different countries? incidence: $8/57^*$, conc. range: $\leq 1.7 \mu g/kg$, \varnothing conc.: 0.6 μg/kg, country: UK⁶³⁷, *used for bread production incidence: $2/13^*$, conc. range: $\leq 6.3 \mu g/kg$, \varnothing conc.: 3.2 μg/kg, country: UK⁶³⁷, *used for biscuit production incidence: 1/14*, conc.: 0.5 μg/kg, country: UK⁶³⁷, *ncac incidence: 3/97, conc. range: 0.4-15.4 µg/kg, country: Germany⁶⁴⁰ incidence: 74/92*, conc. range: 0.02–160 μg/kg, country: Croatia⁶⁵⁵, *ncac incidence: 2/24, conc. range: 30-50 µg/kg, Ø conc.: 40 µg/kg, country: India⁶⁵⁶ incidence: 1/1*, conc.: 13.7 µg/kg, country: UK661, *ncac

incidence: 2/34*, conc. range: 188-430 µg/kg, Ø conc.: 309 μg/kg, country: Italy⁶⁶⁵, *ncac incidence: 56/383, conc. range: 0.03-0.1 µg/kg (8 sa), 0.2–1 μg/kg (26 sa), 1.1–2 μg/kg (11 sa), 2.1–2.9 µg/kg (3 sa), 3.1–4 µg/kg (2 sa), 4.7 μ g/kg (2 sa), 5.6–31.4 μ g/kg (4 sa), Ø conc.: 2 µg/kg, country: USA⁶⁸⁵ incidence: 14/35, conc. range: \leq 0.65 µg/kg, \varnothing conc.: 0.109 μg/kg, country: Germany⁶⁹⁰ incidence: $2/17^*$, conc. range: $\leq 0.1 \,\mu g/kg$, \varnothing conc.: 0.069 μg/kg, country: Germany⁶⁹⁰, *unripe spelt incidence: 2/538*, conc. range: 15 µg/kg, Ø conc.: 15 µg/kg, country: UK⁷²⁹, *ncac incidence: 22/250, conc. range: 1-5 µg/kg (15 sa), 5–10 μ g/kg (3 sa), >10 μ g/kg (4 sa, with a maximum of 32 µg/kg), country: UK^{733} incidence: 9/43* **, conc. range: 0.6–0.8 μ g/kg \varnothing conc.: 0.6 μ g/kg, country: Germany⁷⁶⁰, *o, **ncac incidence: 15/101*, conc. range: \leq 2700 µg/kg, country: UK⁷⁶¹, *ncac incidence: 1/18*, conc.: 40 μg/kg, country: Brazil⁷⁶⁶, *and from Argentina, Uruguay incidence: 1/177, conc.: 0.7 µg/kg, country: Switzerland⁷⁷⁹ incidence: 15/28*, conc. range: 0.1-2 µg/kg (12 sa), $>2 \mu g/kg$ (3 sa, with a maximum of 10 μg/kg), country: Switzerland⁷⁷⁹, *imported incidence: 1/30*, conc.: pr, country: India⁷⁸⁴, *ncac incidence: $6/10^*$, conc. range: 0.5–4 µg/kg, \varnothing conc.: 1.43 µg/kg, country: Poland⁷⁹³, *ncac incidence: 9/11* **, conc. range: <50–3500 μg/kg, Ø conc.: 962 μg/kg, country: UK⁸⁰⁷, *moldy, **ncac incidence: 3/291* **, conc. range: tr-35 μg/kg, country: USA810, *hard red winter, **ncac incidence: 8/286* **, conc. range: 15–115 μg/kg, country: USA⁸¹⁰, *hard red spring, **ncac incidence: 4/27*, conc. range: 0.98-31 µg/kg, country: Bulgaria⁸²⁸, *BEN area incidence: 1/10*, conc.: 1.3 µg/kg, country:

Bulgaria⁸²⁸, *con

incidence: 34/115, conc. range: 0.2-2.5 µg/kg,

Ø conc.: 0.66µg/kg, country: UK⁸⁴⁰

incidence: 1/209*, conc.: 1.8 µg/kg, country: Saudi Arabia⁸⁴⁹, *ncac incidence: 8/20, conc. range: <1.73 µg/kg, Ø conc.: 0.42 µg/kg, country: Morocco⁸⁶⁶ see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice (carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liquerice, liquerice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry

powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wine

Rubratoxin

incidence: 1/30*, conc.: 245 µg/kg, country: India⁷⁸⁴, *ncac see also nuts (almond), nuts (walnut), spices (turmeric)

DIACETOXYSCIRPENOL

incidence: 1/18*, conc.: 30 μg/kg, country: Brazil⁷⁶⁶, *and from Argentina, Uruguay incidence: 1/20*, conc.: 600 μg/kg, country: Brazil⁷⁶⁶, *ncac see also beans, beer, bran (wheat), cereals, maize, nuts (peanut), oats, products, rice, soybeans, spices (chilli powder), spices (curry)

Sterigmatocystin

incidence: 2/30*, conc. range: 110–145 μg/kg, Ø conc.: 128 μg/kg, country: India⁷⁸⁴, *ncac incidence: 7/11* **, conc. range: tr–400 μg/kg, country: UK⁸⁰⁷, *moldy, **ncac see also barley, cassava, cheese, coffee, maize, nuts (almond), nuts (pecan), nuts (pistachio), oil seed rape, rice, spices, spices (fennel), spices (pepper)

TENUAZONIC ACID

incidence: 5/15, conc. range: ≤658 μg/kg, country: Egypt²⁹¹ incidence: 22/22* **, conc. range: 260–6432 μg/kg, Ø conc.: 2419 μg/kg, country: Japan³⁰⁹, *from China, **weather-damaged see also bran, cassava, fruits (mandarin fruit), maize, olives, pulp (tomato), ragi, rice, sorghum, spices (pepper), sunflower seeds, tomato purée, tomatoes

TRICHOTHECENES

incidence: 23/25, conc. range: 15–218 μ g/kg, \varnothing conc.: 87 μ g/kg, country: China²⁸⁵ incidence: 9/15, conc. range: 15–125 μ g/kg, \varnothing conc.: 40 μ g/kg, country: China²⁸⁵

T-2 Toxin

incidence: 8/84*, conc. range: \leq 58 µg/kg, \varnothing conc.: 33 µg/kg, country: Lithuania²⁰³, *ncac incidence: 1/40, conc.: 2.5 µg/kg, country: Egypt⁴²⁷ incidence: 3/17, conc. range:

incidence: 3/17, conc. range: 2000–4000 μg/kg, country: India⁴³⁰ incidence: 6/283*, conc. range: ≤21 μg/kg, Ø conc.: 16 μg/kg, country: UK⁴⁴², *ncac incidence: 1/169*, conc.: 20 μg/kg, country: Norway⁴⁶⁶, *for food and feed incidence: 1/140, conc.: 55 μg/kg, country: Bulgaria⁵⁶⁴

incidence: 2/18*, conc. range: 350–360 μg/kg, Ø conc.: 355 μg/kg, country: Brazil⁷⁶⁶, *and from Argentina, Uruguay

incidence: 2/20*, conc. range: 400–800 µg/kg, \varnothing conc.: 600 µg/kg, country: Brazil⁷⁶⁷, *ncac incidence: 3/58, conc. range: 550–4000 µg/kg, country: India⁷⁸⁸

see also barley, beans, beer, bran (oat), bran (wheat), bread, cereals, cereals (breakfast), flakes (oat), flour, flour (maize), flour (wheat), food, grits (maize), maize, nuts (hazelnut), nuts (peanut), oat products, oats, rice, rye, sorghum, spices (curry), spices (ginger), tandoori, sunflower seeds

T-2 Tetraol

incidence: 1/18*, conc.: 1680 µg/kg, country: Brazil⁷⁶⁶, *and from Argentina, Uruguay see also barley, bran (wheat), maize, soybeans

T-2 Triol

incidence: 2/283*, conc. range: 13–15 μ g/kg, \varnothing conc.: 14 μ g/kg, country: UK⁴⁴², *ncac see also maize, oat products

VIOMELLEIN

incidence: 8/11* **, conc. range: 300–1800 µg/kg, \varnothing conc.: 962 µg/kg, country: UK⁸⁰⁷, *moldy, **ncac see also barley, oil seed rape

Vioxanthin

incidence: 8/11* **, conc. range: 200–1200 µg/kg, \varnothing conc.: 443 µg/kg, country: UK⁸⁰⁷, *moldy, **ncac see also barley, oil seed rape

Xanthomegnin incidence: 2/5*, conc. range: 5–25 µg/kg, Ø incidence: 8/11* **, conc. range: conc.: 20 µg/kg, country: China⁴⁹⁸, *high EC 120–1100 μg/kg, Ø conc.: 390 μg/kg, country: UK⁸⁰⁷, *moldy, **ncac incidence: 8/51* **, conc. range: ≤18 µg/kg, see also barley, oil seed rape Ø conc.: 6 μg/kg, country: Germany⁴⁹⁹, *cg, **ncac ZEARALENONE incidence: 18/50* **, conc. range: incidence: 2/27, conc. range: 2-8 µg/kg ≤105 µg/kg, \varnothing conc.: 24 µg/kg, country: (2 sa), country: Finland²¹⁹ Germany⁴⁹⁹, *eg, **ncac incidence: 1/15, conc.: 23 µg/kg, country: incidence: 5/13* **, conc. range: Germanv²⁴⁴ 100–1800 μg/kg, Ø conc.: 760 μg/kg, country: incidence: 3/25, conc. range: 11-24 µg/kg, Ø Poland⁵¹², *Fdk, **ncac conc.: 16 µg/kg, country: China²⁸⁵ incidence: 22/24*, conc. range: 11-860 μg/kg, incidence: 6/8, conc. range: 105-3079 μg/kg, country: Germany⁵¹⁵, *ncac Ø conc.: 891.7 μg/kg, country: China³⁴² incidence: 9/95* **, conc. range: 5-33 µg/kg, incidence: 78/933*, Ø conc.: 407.7 μg/kg, country: Canada⁵²¹, *Ontario soft winter, country: Argentina³⁹⁵, *ncac **ncac incidence: 2/12, conc. range: 27–30 µg/kg, Ø incidence: 1/188* **, conc.: 4 µg/kg, country: conc.: 28 µg/kg, country: USA424 Canada⁵²¹, *western hard, **ncac incidence: 10/40, conc. range: 28-42 µg/kg, incidence: 6/13*, conc. range: 2–25 µg/kg, Ø country: Egypt⁴²⁷ conc.: 12.5 µg/kg, country: Japan⁵²⁸, *ncac incidence: 10/135* **, conc. range: ≤250 incidence: 3/49*, conc. range: 2-23 µg/kg, μg/kg, Ø conc.: 74 μg/kg, country: country: Ø conc.: 9.7 μg/kg, Norway⁵²⁹, *ncac Germany⁴⁴¹, *cg, **ncac incidence: 69/222*, Ø conc.: 23 µg/kg, incidence: 2/46* **, conc. range: ≤55 µg/kg, country: Japan⁵³⁰, *ncac Ø conc.: 47 μg/kg, country: Germany⁴⁴¹, *og, incidence: 4/31* **, conc. range: 1-3 µg/kg, **ncac Ø conc.: 1 μg/kg, country: Japan⁵³³, *from incidence: 17/283*, conc. range: <188 µg/kg, UK, **ncac Ø conc.: 35 μg/kg, country: UK⁴⁴², *ncac incidence: 2/2* **, conc. range: 3-10 μg/kg, Ø conc.: 6.6 μg/kg, country: Japan⁵³³, *from incidence: 2/2*, conc. range: 2500–3000 μg/kg, Ø conc.: 2750 μg/kg, Scotland, **ncac country: Portugal451, *ncac incidence: 18/18* **, conc. range: incidence: 19/102* ** ***, conc. range: 8–706 μg/kg, \varnothing conc.: 189 μg/kg, country: 364–11,054 µg/kg, Ø conc.: 2721.6 µg/kg, Japan⁵³⁴, *scabby, **ncac incidence: 7/13* **, conc. range: 2-174 µg/kg, country: USA⁴⁵⁴, *soft red, **winter, ***ncac incidence: 2/40, conc. range: 12–32 µg/kg, Ø Ø conc.: 45 μg/kg, country: Japan⁵³⁶, *from conc.: 22 µg/kg, country: Finland⁴⁵⁵ The Netherlands, **ncac incidence: 48/151*, conc. range: incidence: 9/10*, conc. range: 2–21 µg/kg, Ø 10-460 μg/kg, country: New Zealand⁴⁶⁸, *ncac conc.: 9 μg/kg, country: Japan⁵³⁷, *from incidence: 2/10*, conc. range: 8–40 µg/kg, Ø Canada conc.: 24 µg/kg, country: Korea⁴⁶⁹, *for food incidence: $20/20^*$ **, \varnothing conc.: 10 µg/kg, and feed country: Japan⁵³⁸, *from Argentina, **ncac incidence: 5/9* **, conc. range: 3-1254 μg/kg, incidence: $4/4^*$ **, \varnothing conc.: 78 µg/kg, country: Korea⁴⁷⁰, *husked, **ncac country: Japan⁵³⁸, *from China, **ncac incidence: 3/8* **, Ø conc.: 3 μg/kg, country: incidence: 6/15*, conc. range: tr, country: China⁴⁹⁷, *high EC area Japan⁵³⁸, *from Germany, **ncac

incidence: 1/12* **, conc.: 4 µg/kg, country:

Japan⁵³⁸, *from Italy, **ncac

incidence: 6/15*, conc. range: tr, country:

China⁴⁹⁷, *low EC area

457 White mold cheese

country: Japan⁵³⁸, *from Nepal, **ncac incidence: $2/4^*$ **, \varnothing conc.: 16 µg/kg, country: Japan⁵³⁸, *from Portugal, **ncac incidence: 4/7* **, Ø conc.: 2 μg/kg, country: Japan⁵³⁸, *from Yemen, **ncac incidence: 1/116*, conc.: 5000 µg/kg, country: USA⁵⁴³, *hard red winter incidence: 1/42*, conc.: 76 µg/kg, country: Poland⁵⁴⁸, *ncac incidence: 1/2* **, conc.: 10 μg/kg, country: Germany⁵⁶², *unknown origin, **c incidence: 97/140, conc. range: ≤120 µg/kg, Ø conc.: 17 μg/kg, country: Bulgaria⁵⁶⁴ incidence: 35/35*, conc. range: 1266.6-5487.5 $\mu g/kg$, \varnothing conc.: 3464 $\mu g/kg$, country: Iran⁵⁷⁰, *ncac incidence: 4/17*, conc. range: 53-1690 µg/kg, Ø conc.: 676 μg/kg, country: Japan⁵⁷³, *ncac incidence: 1/1* ** ***, con.: 1040 μg/kg, country: Papua, New Guinea⁵⁷⁴, *from Australia, **coarse ground, ***ncac incidence: 3/20*, conc. range: 130-210 µg/kg, Ø conc.: 180 μg/kg, country: Brazil⁷⁶⁷, *ncac incidence: 3/33* **, conc. range: 35–115 µg/kg, \varnothing conc.: 80 µg/kg, country: USA⁷⁷⁰, *scabby, **ncac incidence: 1/95, conc.: 18 µg/kg, country: Switzerland⁷⁷⁹ incidence: 4/28*, conc. range: 14-17 µg/kg, country: Switzerland⁷⁷⁹, *imported incidence: 5/106* **, conc. range: $100-200 \mu g/kg (2 sa), >200 \mu g/kg (3 sa),$ country: Uruguay⁷⁸⁷, *and by-products, **ncac incidence: ?/39*, conc. range: 42,600 μg/kg, country: Iran⁸⁷¹, *ncac see also acha, amaranth, barley, beans, beefburger, beer, biscuits, bran (oat), bran (wheat), bread, cake/muffin mixes, cereal (baby), cereals, cereals (breakfast), cheese, crackers, flakes (corn), flour, flour (barley), flour (maize), flour (wheat), food, food (infant), foodstuff, fruits, germ (wheat), grits (maize), Job's-tears, maize, malt (barley), malt (maize), meal (barley), meal (maize), meal (millet), meal (rye), meal (wheat), meat, meat (luncheon), milk, milk powder, nuts

incidence: 2/10* **, Ø conc.: 4 μg/kg,

(almond), nuts (hazelnut), nuts (peanut), nuts (walnut), oats, oil, oil seeds, pig serum, popcorn, products, pumpkin seeds, rice, rye, sausages, sesame seeds, snacks, sorghum, soybeans, spice powder, spices (chilli), spices (chilli powder), spices (sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (pepper), sunflower seeds, vegetables

Wheat beer

see Beer

Wheat bran

see Bran (wheat)

Wheat flakes

see Flakes (wheat)

Wheat flour

see Flour (wheat)

Wheat food

see Food

Wheat germ

see Germ (wheat)

Wheat grits

see Grits (wheat)

Wheat malt

see Malt (wheat)

Wheat meal

see Meal (wheat)

Wheat noodles

see Noodles

Wheat-, spelt -, unripe spelt grain meal

see Meal (cereal)

Whey powder

see Milk (whey powder)

White mold cheese

see Cheese

White wine 458

White wine

see Wine

Wine may contain the following mycotoxins:

Aflatoxin B_1

incidence: 5/22, conc. range: 0.4–1 µg/l*, Ø conc.: 0.78 µg/l, country: Finland109, * from Algeria, Greece, Portugal, Spain, Yugoslavia see also acha, areca nut, bacon, barley, beans, beefburger, beer, betel nut, bondakaledkai, bread, buckwheat, butter, cassava, cereals, cereals (breakfast), cheese, chestnut, chips (yam), chocolate, cocoa, cocoa beans, cocoa hazelnut cream, coffee beans (green), coix seed, congressbele, cottonseed, cowpeas, dates, drinks, figs, fish, flakes (corn), flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits products, fruits (apricot), fruits (lemon), fruits (mango), Ga Kenkey, gram, grits (maize), gruel, herbs and medicinal plants, hot dog, Incaparina, jam (bean), Job's-tears, jowar, juice (apple), kheri, kidney (hare), kidney (pheasant), kidney (roe deer), kubeba, legume, lentils, linseeds, liver (hare), liver (pheasant), liver (pig), liver (roe deer), maize, maize and bran, maize dough, maize products, marzipan (almond paste), mchuzi mix, meal (cottonseed), meal (maize), meal (peanut), meal (pistachio), meal (posho), meat (luncheon), meju, melon seeds, milk products, milk (buffalo), milk (camel), milk (cow), milk (human breast), milk (sheep), millet, muesli, nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (coconut products), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut brittle), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (tiger), nuts (walnut), nuts and seeds, oats, oil (coconut), oil (mustard), oil (olive), oil (palm), oil (peanut), oil seed rape, olive, paste (soybean), peanut butter / vegetable oil, peas, poonac, popcorn, ragi, raisins, rice, sausages, sesame products, sesame seeds, shiro, snacks, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices

(cumin), spices (curry), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (ingwer), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (saffron), spices (turmeric), sugar, sunflower seeds, taharna (fermented cereal product), vegetable, wheat

Aflatoxin B₂

incidence: 5/22, conc. range: $0.1-0.3 \mu g/l^*$, \varnothing conc.: 0.2 µg/l, country: Finland¹⁰⁹, * from Algeria, Greece, Portugal, Spain, Yugoslavia see also acha, areca nut, beans, beer, betel nut, bondakaledkai, buckwheat, cereals (breakfast), cheese, chocolate, cocoa, congressbele, dates, figs, flour, flour (gram), flour (maize), flour (wheat), food, food (infant), fruits (lemon), fruits (mango), Ga Kenkey, grits (maize), gruel, hot dog, Incaparina, jam (bean), Job's-tears, kubeba, maize, maize and beans, maize dough, maize products, marzipan (almond paste), meal (maize), meal (pistachio), meal (posho), meat (luncheon), milk (human breast), nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), popcorn, porridge, ragi, raisins, rice, sausages, sesame seeds, sorghum, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (turmeric), sugar, wheat, wine

Aflatoxin G₁

incidence: $5/22^*$, conc. range: $0.3-1 \mu g/l$, \varnothing conc.: $0.66 \mu g/l$, country: Finland¹⁰⁹, *from Algeria, Greece, Portugal, Spain, Yugoslavia see also areca nut, beans, betel nut, buckwheat, celery seeds, cereals (breakfast), cheese, cocoa, dates, figs, fish, flour (maize),

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flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, Incaparina, Job's-tears, juice (apple), maize, maize dough, maize products, meat (luncheon), milk (human breast), nut cocktail, nuts, nuts (almond), nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pecan), nuts (pine), nuts (pistachio), nuts (walnut), oil (olive), oil (peanut), paste (soybean), peas, popcorn, raisins, rice, sesame seeds, soybeans, spices, spices (ammi), spices (cardamom), spices (chilli), spices (chilli powder), spices (coriander), spices (cumin), spices (fennel), spices (fenugreek), spices (garlic), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (pinhol), spices (turmeric), sunflower seeds

Aflatoxin G₂

incidence: 5/22*, conc. range: 0.1–0.3 µg/l, Ø conc.: 0.18 µg/l, country: Finland¹⁰⁹, *from Algeria, Greece, Portugal, Spain, Yugoslavia see also areca nut, beans, betel nut, buckwheat, cereals (breakfast), cocoa, figs, fish, flour (maize), flour (wheat), food, fruits (lemon), fruits (mango), Ga Kenkey, gruel, maize, maize dough, milk (human breast), nuts, nuts (brazil), nuts (cashew), nuts (coconut), nuts (grogannut), nuts (peanut), nuts (peanut butter), nuts (peanut products), nuts (pistachio), nuts (walnut), oil (olive), paste (soybean), popcorn, raisins, rice, sesame seeds, shoyu, soybeans, spices (cardamom), spices (chilli), spices (coriander), spices (cumin), spices (fennel), spices (ginger), spices (Indian cassia), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), turmeric, sunflower seeds

OCHRATOXIN A

incidence: 7/7*, conc. range: 0.028–0.18 μ g/l, \varnothing conc.: 0.073 μ g/l, country: Morocco²²⁸, *white

incidence: 20/20*, conc. range: $0.04-3.24 \mu g/l$, \varnothing conc.: $0.912 \mu g/l$, country: Morocco²²⁸, *red incidence: 3/3*, conc. range: 0.04-0.54 μg/l, \emptyset conc.: 0.223 µg/l, country: Morocco²²⁸, *rosé incidence: 49/53* **, conc. range: $0.0022-6.71 \,\mu g/l$, $\varnothing \, conc.: 0.039 \,\mu g/l$, country: Poland²⁵⁰, *imported, **red incidence: 7/22* **, conc. range: 0.0283–0.0707 μg/l, country: Brazil²⁶⁰, *from Brazil, Argentina, Chile, **red incidence: 9/20* **, conc. range: 0.0283–0.0567 μg/l, country: Brazil²⁶⁰, *from Spain, France, Italy, Portugal, **red incidence: 1/5*, conc.: 0.0354 µg/l, country: Brazil²⁶⁰, *rosé incidence: 2/15* **, conc. range: 0.0283 µg/l, country: Brazil²⁶⁰, *from Brazil, Argentina, incidence: 4/18* **, conc. range: 0.0212–0.0567 μg/l, country: Brazil²⁶⁰, *from Spain, France, Italy, Portugal, **white incidence: 63/118* **, conc. range: nd–1.72 μg/l, country: Greece²⁶³, *white, **dry incidence: 71/104* **, conc. range: nd–2.69 μg/l, country: Greece²⁶³, *red, **dry incidence: 13/20* **, conc. range: nd–1.16 μg/l, country: Greece²⁶³, *rosé, **dry incidence: 3/18*, conc. range: nd-2.82 μg/l, country: Greece²⁶³, *dessert incidence: 6/8*, conc. range: nd-1.75 µg/l, country: Greece²⁶³, *white (Retsina) incidence: 4/50* **, conc. range: $0.11-1.13 \mu g/l$, \varnothing conc.: $0.37 \mu g/l$, country: Spain²⁶⁹, *white, **includes Rioja, Penedés, Costers del Serge, Utiel-Requena incidence: 24/130* **, conc. range: 0.06-4.24 $\mu g/l$, \varnothing conc.: 0.25 $\mu g/l$, country: Spain²⁶⁹, *red, **includes Rioja, Penedés, Costers del Serge, Utiel-Requena incidence: 4/10*, conc. range: 0.14-0.71 μg/l, \emptyset conc.: 0.44 µg/l, country: Spain²⁶⁹, *sparkling incidence: 9/20* **, conc. range: 0.09-15.25 $\mu g/l$, \varnothing conc.: 4.47 $\mu g/l$, country: Spain²⁶⁹, **includes Malaga, Muscatel, Sherry, Vermouth, Mistelle

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incidence: 7/13* **, conc. range: nd $-0.87 \mu g/l$, \varnothing conc.: 0.27 $\mu g/l$, country: Greece²⁹², *white, **dry incidence: 9/14* **, conc. range: nd–2.51 μ g/l, \varnothing conc.: 0.68 μ g/l, country: Greece²⁹², *red, **dry incidence: 6/7*, conc. range: nd−3.2 μg/l, Ø conc.: 0.94 µg/l, country: Greece²⁹², *sweet incidence: 45/69* **, conc. range: nd-0.267 µg/l, country: Spain²⁹³, *partly from different European countries and California, **white incidence: 84/91* **, conc. range: nd-0.603 μg/l, country: Spain²⁹³, *partly from different European countries, **red incidence: 29/32* **, conc. range: nd-0.161 µg/l, country: Spain²⁹³, *partly from different European countries, **rosé incidence: 35/47* **, conc. range: nd–0.254 μg/l, country: Spain²⁹³, *partly from different European countries, **sherry type incidence: 10/12*, conc. range: nd-0.037 µg/l, country: Spain²⁹³, *sparkling incidence: 15/16* **, conc. range: nd-2.54 µg/l, country: Spain²⁹³, *and Italy, **dessert incidence: 14/27*, conc. range: <0.126 µg/l, country: South Africa²⁹⁴, *white incidence: $9/49^*$, conc. range: $\leq 0.1 \mu g/l$, country: South Africa²⁹⁴, *red incidence: $3/27^*$, conc. range: $\leq 2.672 \mu g/l$, country: South Africa²⁹⁴, *noble late harvest incidence: $4/7^*$, conc. range: $\leq 0.168 \mu g/l$, country: South Africa²⁹⁴, *fortified incidence: 2/2*, conc. range: 1.5–3.78 µg/l, Ø conc.: 2.64 µg/l, country: Italy306, *red incidence: 82/96* **, conc. range: 0.001–3.177 μg/l, country: Italy³³⁰, *different Italian origins, **red incidence: 9/15* **, conc. range: 0.001-3.856 μg/l, country: Italy³³⁰, *different Italian origins, **dessert incidence: 3/3* ** ***, conc. range: 0.05-0.08 $\mu g/l$, \varnothing conc.: 0.06 $\mu g/l$, country: Portugal⁵⁹⁴, *port, **white, ***adulteration incidence: 1/2* **, conc.: 0.1-0.3 µg/kg, country: Taiwan607, *domestic, **red

incidence: 4/8* **, conc. range: 0.1-0.3 μg/kg (2 sa), 0.3–0.5 μg/kg (2 sa), country: Taiwan⁶⁰⁷, *imported, **red incidence: 13/28*, conc. range: $0.056-0.316 \,\mu g/l, \varnothing \, conc.: 0.147 \,\mu g/l,$ country: Spain⁶³³, *red incidence: 7/12*, conc. range: 0.154–0.208 μg/l, Ø conc.: 0.186 μg/l, country: Spain⁶³³, *white incidence: 28/50* **, conc. range: 0.01-0.19 μg/kg (22 sa), 0.2–0.4 μg/kg (4 sa), 0.41–1 μg/kg (2 sa, with a maximum of 0.8 μg/kg), country: UK638, *from different countries, **red incidence: $14/58^*$ **, conc. range: $\leq 1.4 \mu g/l$, country: Germany⁶³⁹, *and from different countries, **white incidence: $18/51^*$ **, conc. range: $\leq 2.4 \mu g/l$, country: Germany⁶³⁹, *and from different countries, **rosé incidence: $79/172^*$ **, conc. range: $\leq 7 \mu g/l$, country: Germany⁶³⁹, *and from different countries, **red incidence: 15/15* **, conc. range: 0.04-0.33 μg/l, country: South Africa⁶⁴¹, *bottled, boxed, late harvest, **white incidence: 9/9* **, conc. range: 0.07-0.39 µg/l, country: South Africa⁶⁴¹, *bottled, boxed, **red incidence: ?/3* **, conc. range: 0.01–0.08 μg/l, country: South Africa⁶⁴¹, *from Italy, **white incidence: ?/5* **, conc. range: 0.23-0.91 μg/l, country: South Africa⁶⁴¹, *from Italy, **red incidence: 31/31* **, conc. range: $0.009-2.35 \mu g/l$, country: France⁶⁴³, *and from Mediterranean sea countries, **red incidence: 14/362* **, conc. range: 0.051-0.1 μg/l (14 sa), country: Canada⁶⁶⁴, *and from different countries, **white incidence: 96/580* **, conc. range: $0.051-0.1 \mu g/l (94 \text{ sa}), >0.1-<2 \mu g/l (2 \text{ sa}),$ country: Canada⁶⁶⁴, *and from different countries, **red incidence: 10/43*, conc. range: <0.004–0.156 μg/l, country: Canada⁶⁷⁶, *white incidence: 5/36*, conc. range: <0.008–0.393 μg/l, country: Canada⁶⁷⁶, *red

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incidence: 22/53* **, conc. range: <0.004-3.72 μg/l, country: Canada⁶⁷⁶, *imported, **white incidence: 26/48* **, conc. range: <0.008–2.32 μg/l, country: Canada⁶⁷⁶, *imported, **red incidence: ?/24* **, conc. range: <0.178 µg/l, country: Switzerland⁶⁹¹, * and from different countries, **white incidence: $?/15^* **$, conc. range: $\le 0.123 \mu g/l$, country: Switzerland⁶⁹¹, *from different countries, **rosé incidence: 55/79* **, conc. range: <0.388 µg/l, country: Switzerland⁶⁹¹, *and from different countries, **red incidence: $?/15^* **$, conc. range: $\le 0.451 \mu g/l$, country: Switzerland⁶⁹¹, *from different countries, **includes Port, Sherry, Marsalla, Malaga, Vermouth incidence: $13/18^*$, conc. range: $\leq 0.11 \,\mu g/l$, country: Switzerland⁶⁹², *white, red, rosé incidence: 4*/10, conc.: <4 µg/l, country: UK742, *red incidence: 16/257*, conc. range: 0.05–0.5 μg/l, country: Australia⁷⁴⁹, *white incidence: 14/344*, conc. range: 0.05–0.62 μg/l, country: Australia⁷⁴⁹, *red incidence: 1/117*, conc.: 0.02 µg/l, country: Austria⁷⁵⁰, *red, white see also barley, beans, beef, beer, berries (strawberry), biscuits, bran, bran (barley), bran (oat), bran (wheat), bread, buckwheat, butter, cake (cocoa), cereal products, cereals, cereals (breakfast), cheese, chicken, chicken muscle, chocolate, chocolate and chocolate cream, cocoa beans, cocoa mass, cocoa powder, coffee, coffee beans (green), coppa, copra, crème puddings, currants, dates, drink, drink (cocoa), drink (malt), drugs, duck, extrudates, figs, fish, flakes (cereal), flakes (corn), flakes (oat), flakes (wheat), flour, flour (cassava), flour (maize), flour (rye), flour (wheat), food, food (baby), food (infant), fruits, fruits (apple), fruits (apricot), fruits (cherry), fruits (peach), fruits (plum), fruits (prune), germ (wheat), goose, grits, grits (durum), grits (maize), groats (barley), gruel, gruel (oat), ham, jam, joints, juice

(carrot), juice (currant), juice (fruit), juice (grape), juice (tomato), kidney (pig), kidney (poultry), knäckebröd, lentils, linseeds, liqourice, liqourice root, liver (cow), liver (duck), liver (goose), liver (pig), liver (turkey), maize, maize dough, malt, malt (barley), meal (buckwheat), meal (cereal), meal (maize), meal (rye), meal (spelt), meal (wheat), meat and fish, milk (cow), milk (human breast), millet, muesli, must, noodles, nut slice, nuts, nuts (almond), nuts (cashew), nuts (coconut), nuts (hazelnut), nuts (peanut), nuts (peanut butter), nuts (pistachio), nuts (walnut), oats, oil (olive), oil (sesame), olives, pasta, pastries, peas, pig blood, pig muscle, pig serum, pig (black pudding), plant commodities, popcorn, pork, pork pate, potatoes, products, pulp (grape), pulses, pumpernickel, ragi, raisins, rice, rolls, rusk, rye, sandwich, sauce, sausages, sesame seeds, snacks, sorghum, soybeans, spelt, spice powder, spices (cardamom), spices (chilli), spices (chilli pickle), spices (chilli powder), spices (chilli sauce), spices (coriander), spices (curry), spices (curry paste), spices (curry powder), spices (fennel), spices (garlic pickle), spices (ginger), spices (mustard), spices (nutmeg), spices (paprika), spices (pepper), spices (pepper, cayenne), spices (tandoori), spices (turmeric), sultanas, sunflower seeds, tea, tomato ketchup, tomatoes, turkey, vegetables, vinegar, wheat

Wine vinegar

see Vinegar

Würstel

see Sausages

Yam chips

see Chips (yam)

Yogurt may contain the following mycotoxins:

AFLATOXIN M_1 incidence: 44/54, conc. range: 0.05–0.47 µg/kg, \varnothing conc.: 0.2 µg/kg, country: Germany⁶

Yogurt 462

incidence: 91/114, conc. range: <0.001–0.496 μg/kg, Ø conc.: 0.018 μg/kg, country: Italy⁵⁸ incidence: 31/60, conc. range: 0.017–0.124 μg/l, Ø conc.: 0.045 μg/kg, country: Korea⁹⁶ incidence: 6/8, conc. range: 0.036–0.334 μg/l, Ø conc.: 0.185 μg/kg, country: Italy¹¹⁶ incidence: 3/4, conc. range: 0.01–0.064 μg/kg, Ø conc.: 0.034 μg/kg, country: USA¹²⁰ incidence: 1/2*, conc.: 0.03 μg/l, country: Kuwait³²⁹, *full cream incidence: 73/120*, conc. range: 0.001–0.0321 μg/l Ø conc.: 0.009 μg/l, country: Italy⁶¹³, *and from Belgium, France

incidence: 4/13*, conc. range: 0.02–0.05 μg/kg (4 sa, with a maximum of 0.04 μg/kg), country: UK⁷³⁵, *plain incidence: 2/17, conc. range: 0.02–0.05 μg/kg (2 sa, with a maximum of 0.03 μg/kg), country: UK⁷³⁵ see also butter, cheese, cheese (blue), gruel, ice cream, kidney (poultry), koshk, lactoserum powder, maize, milk, milk packets, milk powder, milk products, milk (buffalo), milk (camel), milk (cow), milk (goat), milk (human breast), milk (raw or dried, for infant formula), milk (sheep), milk (sheep/goat), milk (UHT), milk (whey powder)

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