Draft of Sanitation Standard for Contaminants and Toxins in Food

Article 1

This Standard is prescribed in accordance with the provision of Article 17 of the Act Governing Food Safety and Sanitation.

Article 2

The contaminants in this standard shall mean the substance not intentionally added to food, which present in food as a result of production or pollution during the manufacturing, processing, preparing, packaging, transportation, storage, or selling, or as a result of environmental contamination. It does not include insect fragments, hairs and other extraneous matters.

The toxins in this standard include the mycotoxins, marine bio-toxins and natural toxins in plant origin.

The scope of this standard does not include the residues of pesticides, veterinary drugs and processing aids; the tolerance of atomic dust and radioactivity contamination, polychlorinated biphenyl and dioxins; and the microorganisms and microbial toxins that are within the sanitation standard for microbiological in foods.

Article 3

The maximum levels of metals in food shall meet the standard on Appendix 1.

Article 4

The maximum levels of mycotoxins in food shall meet the standard on Appendix 2.

Article 5

The maximum levels of other contaminants and toxins in food shall meet the standard on Appendix 3.

Article 6

This standard shall be implemented from the date of promulgation.

1	1 Total Arsenic (As-tot) and Inorganic Arsenic (As-in)		
	ML (mg/kg)		ng/kg)
	Foodstuffs	As-tot	As-in
1.1	Grains		
1.1.1	Rice (husked), for example brown rice		$0.35^{(1)}$
1.1.2	Rice (Polished), for example polished rice		$0.2^{(1)}$
1.1.3	Rice destined for the production of food for		$0.1^{(1)}$
	infants and young children		
1.1.4	Other cereal grains	1	
1.2	Seaweed		$1.0^{(2)}$
1.3	Aquatic animal		
1.3.1	Fish		$0.5^{(2)}$
1.3.2	Bivalve molluscs (exclude shell), Cephalopod		$0.5^{(2)}$
	(exclude organ)		
1.3.3	Muscle meat of crustaceans, include muscle meat		$0.5^{(2)}$
	from appendages		
1.3.4	Other aquatic animal ⁽³⁾		$0.5^{(2)}$
1.4	Edible fats and oils ⁽⁴⁾		
1.4.1	Fats and oils intended for direct human	0.1	
	consumption		
1.4.2	Fat spreads and blended spreads ⁽⁵⁾	0.1	
1.5	Bottled and packaged drinking water	0.01	
1.6	Beverage (exclude natural and concentrated fruit	0.2	
	and vegetable juices)		
1.7	Salt, food grade ⁽⁶⁾	0.2	
1.8	Ice cubes, food grade ⁽⁷⁾	0.01	
2	Lead		
	Foodstuffs	ML (n	ng/kg)
2.1	Grains		
2.1.1	Cereal grains, include rice	0.	.2
2.2	Vegetables, fruits and plant origin		
2.2.1	Leafy vegetables. The ML also applies to	0.3	2 (2)
	brassica leafy vegetables.	0)
2.2.2	Brassica vegetables. The ML applies to head		
	cabbages, kohlrabi, cauliflower, broccoli and	0.1	(2)
	brussels sprouts ("buttons" only). The ML does		L
	not apply to brassica leafy vegetables.		
2.2.3	Root and tuber vegetables. The ML applies to		
	whole commodity after removing tops and	0.1	(2)
	adhering soil. Potato must peel. The ML does not		

Appendix1. Maximum levels (ML) of metals in foods

	apply to celeriac.	
2.2.4	Bulb vegetables. The ML applies to dry onions	
	and garlic, must removal of roots, adhering soil	$0.1^{(2)}$
	and whatever parchment skin is easily detached.	
2.2.5	Fruiting vegetables. The ML applies to whole	
	commodity after removal of stems. Fresh corn	$0.05^{(2)}$
	without husk, exclude sweet corn.	
2.2.6	Legume vegetables, including edible pods.	0.1 ⁽²⁾
2.2.7	Pulses, including edible crops harvested solely	$0.2^{(2)}$
	for dry seeds.	
2.2.8	Peanuts	$0.2^{(2)}$
2.2.9	Cranberry, Currants, Elderberry and Strawberry	$0.2^{(2)}$
2.2.10	Other vegetables and fruits, after removal of	$0.1^{(2)}$
	inedible stones, stems, caps/crown and seeds.	
2.2.11	able olives	0.4 ⁽¹⁶⁾
2.2.12	Herbs and Spices	$0.3^{(2)}$
2.2.13	Seaweed	$1.0^{(2)}$
2.2.14	Mushrooms ⁽⁸⁾	3 ⁽⁹⁾
2.3	Aquatic animal	
2.3.1	Fish	$0.3^{(2)}$
2.3.2	Bivalve molluscs (exclude shell)	$1.5^{(2)}$
2.3.3	Cephalopod (exclude organ)	$0.3^{(2)}$
2.3.4	Muscle meat of crustaceans, include muscle meat	$0.5^{(2)}$
	from appendages	
2.3.5	Other aquatic animal ⁽³⁾	$0.3^{(2)}$
2.4	Livestock and Poultry Products	
2.4.1	Meat of cattle, sheep, pigs and poultry	0.1 ⁽²⁾
2.4.2	Edible offal of cattle, sheep, pigs and poultry	$0.5^{(2)}$
2.4.3	Eggs (exclude shell)	0.3
2.5	Edible fats and oils ⁽⁴⁾	
2.5.1	Fats and oils intended for direct human	0.1
	consumption	0.1
2.5.2	Fat spreads and blended spreads ⁽⁵⁾	0.1
2.6	Milk products	74 2
2.6.1	Milk and secondary milk products ⁽¹⁷⁾	$0.02^{(16)}$
2.6.2	Butter, Cream and other products which mainly	0.1 ⁽¹⁶⁾
	containing milk fat	0.1
2.7	Beverage	
2.7.1	Natural fruit and vegetable juices, reconstituted	
	fruit and vegetable juices and nectars, except	0.03
	concentrated fruit and vegetable juices, and	0.05
	juices or nectars from berries and other small	

	fruits	
2.7.2	Natural fruit and vegetable juices, reconstituted	
	fruit and vegetable juices, and nectars from	0.05
	berries and other small fruits, excepte	0.05
	concentrated fruit and vegetable juices	
2.7.3	Other beverage intended for direct human	
	consumption, except of foodstuffs listed in 2.7.1,	0.3
	2.7.2 and concentrated fruit and vegetable	
2.8	Bottled and packaged drinking water	0.01
2.9	Canned foods	
2.9.1	Canned vegetables. The ML does not apply to	0.1
	canned brassica vegetables.	0.1
2.9.2	Canned fruits	0.1
2.9.3	Other canned foods, exclude canned beverage	1
	which apply to foodstuffs listed in 2.7.	1
2.10	Food for infant and young child ⁽¹⁰⁾	
2.10.1	Infant formula ⁽¹¹⁾ and follow-up infant formula ⁽¹²⁾	
	-marketed as liquid	$0.010^{(16)}$
	-marketed as powder	$0.050^{(16)}$
2.10.2	Infant formula for special medical purposes ⁽¹³⁾	
	and foods for special medical purposes intended	
	specifically for young child	
	-marketed as liquid	$0.010^{(16)}$
	-marketed as powder	$0.050^{(16)}$
2.10.3	Cereal based foods for infant and young child ⁽¹⁴⁾ and baby food ⁽¹⁵⁾	0.050 ⁽¹⁶⁾
2.10.4	Drinks which labelled and sold to infant and	
	young child, except of foodstuffs marketed as	$0.030^{(16)}$
	liquid listed in 2.10.1, 2.10.2 and 2.10.3	
2.11	Salt, food grade ⁽⁶⁾	2
2.12	Ice cubes, food grade ⁽⁷⁾	0.01
2.13	Honey	0.1
2.14	Jams and jellies	1
	Cadmium	
3		
3	Foodstuffs	ML (mg/kg)
3 3.1	Foodstuffs Grains	ML (mg/kg)
		ML (mg/kg)
3.1	Grains	
3.1 3.1.1	Grains Rice	0.4

3.2	Vegetables, fruits and plant origin	
3.2.1	Leafy vegetables. The ML also applies to	$2 a^{(2)}$
	brassica leafy vegetables	$0.2^{(2)}$
3.2.2	Brassica vegetables. The ML applies to head	
	cabbages, kohlrabi, cauliflower, broccoli and	$0.07^{(2)}$
	brussels sprouts ("buttons" only). The ML does	$0.05^{(2)}$
	not apply to brassica leafy vegetables.	
3.2.3	Root and tuber vegetables. The ML applies to	
	whole commodity after removing tops and	$0.1^{(2)}$
	adhering soil. Potato must peel. The ML does not	0.1
	apply to celeriac and parsnips.	
3.2.4	Celeriac and parsnips	$0.2^{(2)}$
3.2.5	Stalk and stem vegetables. The ML for rhubarb	
	only applies to leaf stems, for globe artichoke	$0.1^{(2)}$
	only applies to flower head. Celery and	0.1
	asparagus must removal of adhering soil.	
3.2.6	Bulb vegetables. The ML applies to dry onions	
	and garlic, must removal of roots, adhering soil	$0.05^{(2)}$
	and whatever parchment skin is easily detached.	
3.2.7	Fruiting vegetables. The ML applies to whole	
	commodity after removal of stems. Sweet corn	$0.05^{(2)}$
	and fresh corn without husk.	
3.2.8	Legume vegetables, including edible pods	$0.1^{(2)}$
3.2.9	Pulses, including edible crops harvested solely	(2)
	for dry seeds. The ML does not apply to soy	$0.1^{(2)}$
	bean.	(2)
3.2.10	Soy beans and peanuts	$0.2^{(2)}$
3.2.11	Other vegetables and fruits	$0.05^{(2)}$
3.2.12	Herbs and spices	$0.2^{(2)}$
3.2.13	Seaweed	$1.0^{(2)}$
3.2.14	Mushrooms ⁽⁸⁾	2 ⁽⁹⁾
3.3	Aquatic animal	
3.3.1	mackerel (Scomber species), Tuna (Thunnus	(2)
	species, Euthynnus species, Katsuwonus	$0.1^{(2)}$
	pelamis), Bichique (Sicyopterus lagocephalus)	
3.3.2	Bullet tuna (Auxis species)	0.15 ⁽²⁾
3.3.3	Anchovy (Engraulis species) Swordfish (Xiphias	$0.25^{(2)}$
	gladius) Sardine (Sardina pilchardus)	
3.3.4	Other fish	$0.05^{(2)}$
3.3.5	Bivalve molluscs (exclude shell), Cephalopod	$1^{(2)}$
	(exclude organ)	_
3.3.6	Muscle meat of crustaceans, include muscle meat	$0.5^{(2)}$

	from appendages		
3.3.7	Other aquatic animal ⁽³⁾	0.	3 ⁽²⁾
3.4	Livestock and poultry Products		
3.4.1	Meat of cattle, sheep, pigs and poultry	0.0	50 ⁽²⁾
3.4.2	Meat of horse		$20^{(2)}$
3.4.3	Liver of cattle, sheep, pigs, poultry and horse		50 ⁽²⁾
3.4.4	Kidney of cattle, sheep, pigs, poultry and horse	1.	$0^{(2)}$
3.5	Bottled and packaged drinking water	0.	003
3.6	Food for infant and young child ⁽¹⁰⁾		
3.6.1	Infant formula ⁽¹¹⁾ and follow-up infant formula ⁽¹²⁾ - formulae manufactured from cows' milk		
	proteins or protein hydrolysates		(10)
	-marketed as liquid	0.0	$05^{(16)}$
	-marketed as powder	0.0	$10^{(16)}$
3.6.2	Infant formula ⁽¹¹⁾ and follow-up infant formula ⁽¹²⁾ -formulae manufactured form soya protein isolates, alone or in a mixture with cows' milk		
	proteins		
	-marketed as liquid	0.0	$10^{(16)}$
	-marketed as powder	0.02	$20^{(16)}$
3.6.3	Cereal based foods for infant and young child ⁽¹⁴⁾ and baby food ⁽¹⁵⁾	0.040 ⁽¹⁶⁾	
3.7	Salt, food grade ⁽⁶⁾	0	0.2
4	Mercury (Hg) and Methylmercury (MeH		
	ML (mg		(mg/kg)
	Foodstuffs	Hg	MeHg
4.1	Rice	0.05	
4.2	Seaweed	$0.5^{(2)}$	
4.3	Edible fats and oils ⁽⁴⁾		
4.3.1	Fats and oils intended for direct human	0.07	
	consumption, exclude marine oils	0.05	
4.3.2	Marine oils	0.1	
4.4	Aquatic animal		
4.4.1	Shark, swordfish, tuna and oilfish		2 ⁽²⁾
4.4.2	Grenadier, bonito, seabream, catfish,		
	anglerfish/goosefishes, flounder/ flatfish, mullet, rays, scabbard fish, <i>Parastromateus niger</i> , sturgeon, <i>Scatophagus argus</i> , eel, gold barracuda		1 ⁽²⁾
4.4.3	Other fish		0.5 ⁽²⁾
4.4.4	Bivalve molluscs (exclude shell), Cephalopod		0.5 ⁽²⁾
	(exclude organ)		

4.4.5	Muscle meat of crustaceans, include muscle meat from appendages		0.5 ⁽²⁾
4.4.6	Other aquatic animal ⁽³⁾		$0.5^{(2)}$
4.5	Bottled and packaged drinking water	0.001	
4.6	Salt, food grade ⁽⁶⁾	0.1	
4.7	Ice cubes, food grade ⁽⁷⁾	0.001	
5	Tin		1
	Foodstuffs	ML (r	ng/kg)
5.1	Canned edible fats and oils ⁽⁴⁾		<u>-8-8/</u> 50
5.2	Canned beverage		50
5.3	Canned food for infant and young child ⁽¹⁰⁾		
5.3.1	Canned infant formulae ⁽¹¹⁾ and follow-up infant		
0.011	formula ⁽¹²⁾ , exclude dried and powdered	50	(16)
	products		
5.3.2	Canned infant formula for special medical		
	purposes ⁽¹³⁾ , exclude dried and powdered	50	(16)
	products		
5.3.3	Canned cereal based foods for infant and young		
	child ⁽¹⁴⁾ and baby food ⁽¹⁵⁾ , exclude dried and	50	(16)
	powdered products		
5.4	Other canned foods packed in metallic containers	25	50
6	Copper		
	Foodstuffs	ML (r	ng/kg)
6.1	Eggs (exclude shell)		5
6.2	Beverage, exclude naturally and concentrated		0
	fruit and vegetable juices	5	.0
6.3	Salt, food grade ⁽⁶⁾		2
7	Antimony		
	Foodstuffs	ML (n	ng/kg)
7.1	Beverage, packed in PET containers	0.	15
7.2	Bottled and packaged drinking water, packed in	0.0	01
	PET containers	0.0	01
Note.			
⁽¹⁾ If the	total-arsenic concentration is below the ML for inor	ganic-arse	enic, no
furth	er inorganic-arsenic testing is required.		
$^{(2)}Wet$	weight basis.		
⁽³⁾ Othe	r aquatic animals, for example, the sea urchin and the	e sea cucu	mber.
⁽⁴⁾ Edib	le fats and oils are derived from vegetable, animal or	marine of	rigin.
The	raw materials shall comply with the provisions of the	e agricultu	ral
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authorities include the good agriculture and animal husbandry; legitimate slaughtering, fishing and harvesting; meet the "Act Governing Food Safety

and Sanitation", clean and fit for human consumption.

- ⁽⁵⁾The ML does not apply to fat spreads derived exclusively from milk and/or milk products, for example, the butter.
- ⁽⁶⁾ The food grade salt means obtained from the sea, from underground rock salt deposits or from natural brine; it is used as an ingredient of food, both for direct sale to the consumer and for food manufacture; the content of NaCl more than 97 % on a dry matter basis; or salt which to drawn from seawater 200 meters below sea level or deeper, the content of NaCl more than 95 % on a dry matter basis. It also applies to salt used as a carrier of food additives and / or nutrients. The by-products from chemical industries shall not be used.
- ⁽⁷⁾ The water material shall comply with the Quality Standard of Drinking Water; intended for direct human consumption.
- ⁽⁸⁾The ML applies to the carpophores, but exclude mycelium.
- ⁽⁹⁾Dry weight basis.
- ⁽¹⁰⁾The term "infant" means a person not more than 12 months of age. The term "young child" means a person from the age of more than 12 months up to the age of three years (36 months).
- ⁽¹¹⁾"Infant formula" means a breast-milk substitute specially manufactured to satisfy, by itself, the nutritional requirements of infant from birth to six months of age up to the introduction of appropriate complementary feeding.
- ⁽¹²⁾"Follow-up infant formula" means a food intended for use as formula of the weaning diet for the infant from six months to twelve months of age. Not suitable alone for infant under six months consumption.
- ⁽¹³⁾"Infant formula for special medical purposes" means a substitute for human milk or infant formula, by itself, the special nutritional requirements of infant with specific disorder, disease or medical condition during the first months of life up to the introduction of appropriate complementary feeding.
- ⁽¹⁴⁾"Cereal based foods for infant and young child" means processed cereal based food intended to fulfil the particular requirements of infant in good health while they are being weaned, and of young child in good health as a supplement to their diet and/or for their progressive adaptation to ordinary food, including cereals which are or have to be reconstituted with milk or other liquids, and pastas, rusks and biscuits.
- ⁽¹⁵⁾"Baby food" means food intended to fulfil the particular requirements of infant in good health while they are being weaned, and of young child in good health as a supplement to their diet and/or for their progressive adaptation to ordinary food, exclude cereal based foods for infant and young child, and milk-based drinks and similar products.
- ⁽¹⁶⁾The ML refers to the product as sold.
- ⁽¹⁷⁾ Milk means raw milk, heat-treated milk, sterilized milk, milk for the manufacture of milk-based products, which is intended for consumption.

Secondary milk products means those milk products undergone simple processing for removal or part removal of certain ingredients such as water, milk fat, including milk powders, evaporated milk, skimmed milk.

1	Aflatoxins total $(B_1+B_2+G_1+G_2)$	
	Foodstuffs	ML (µg/kg)
1.1	Grains	
1.1.1	Rice, maize and wheat, raw material ⁽¹⁾	10
1.1.2	Processed cereal-based products	4
1.2	Edible fats and oils ⁽²⁾	10
1.3	Tree nuts, oilseeds ⁽³⁾ and soybeans	
1.3.1	Peanuts, oilseeds and soybeans, raw material ⁽¹⁾	
	and removal of shell/husk. Exclude the material	15
	for refined vegetable oil production	
1.3.2	Almonds, pistachios, apricot kernels, hazelnuts	
	and brazil nuts, raw material ⁽¹⁾ and removal of	15
	shell/husk	
1.3.3	Other tree nuts, raw material ⁽¹⁾ and removal of	10
	shell/husk	10
1.3.4	Peanuts, oilseeds, soybeans and its processed	
	product intended for direct human consumption,	4
	removal of shell/husk	
1.3.5	Almonds, pistachios, apricot kernels, hazelnuts,	
	brazil nuts and its processed product intended for	10
	direct human consumption, removal of shell/husk	
1.3.6	Other tree nuts and its processed product intended	
	for direct human consumption, removal of	4
	shell/husk	
1.4	Dried fruit	
1.4.1	Dried fruit raw material ⁽¹⁾ ,exclude of dried figs	10
1.4.2	Dried figs and its processed product intended for	10
	direct human consumption	10
1.4.3	Other dried fruit and its processed product	4
	intended for direct human consumption	T
1.5	Following species of spices, unless otherwise	
	provided, refers to the product as sold:	
	-Capsicum spp. and its processed products,	
	dried fruits thereof, including chillies, chilli	
	powder, cayenne and paprika.	
	- <i>Piper</i> spp. and its processed products, fruits	10
	thereof, including white and black pepper.	
	-Myristica fragrans (nutmeg)	
	-Zingiber officinale (ginger)	
	- <i>Curcuma longa</i> (turmeric)	
	-Mixtures of spices containing one or more of	

Appendix2. Maximum levels (ML) of mycotoxins in foods

	the abovementioned spices			
1.6	Other foods	10		
2	Aflatoxin M ₁			
	Foodstuffs	ML (µg/kg)		
2.1	Milks ⁽⁴⁾	0.5		
2.2	Food for infant and young child ⁽⁵⁾			
2.2.1	Infant formulae ⁽⁶⁾ and follow-up infant formula ⁽⁷⁾	$0.025^{(8)}$		
2.2.2	Infant formula for special medical purposes ⁽⁹⁾	0.025 ⁽⁸⁾		
3	Aflatoxin B ₁			
	Foodstuffs	ML (µg/kg)		
3.1	Grains			
3.1.1	Rice and maize, raw material ⁽¹⁾	5		
3.1.2	Processed cereal-based products, exclude food	2		
	for infant and young child	Ĺ		
3.2	Tree nuts, oilseeds ⁽³⁾ and soybeans			
3.2.1	Peanuts, oilseeds and soybeans, raw material ⁽¹⁾			
	and removal of shell/husk. Exclude the material	8		
	for refined vegetable oil production			
3.2.2	Hazelnuts and brazil nuts, raw material ⁽¹⁾ and	8		
	removal of shell/husk	0		
3.2.3	Almonds, pistachios and apricot kernels, raw	12		
	material ⁽¹⁾ and removal of shell/husk	12		
3.2.4	Other tree nuts, raw material ⁽¹⁾ and removal of	5		
	shell/husk			
3.2.5	Peanuts, oilseeds, soybeans and their processed			
	product, intended for direct human consumption,	2		
2.2.6	removal of shell/husk			
3.2.6	Hazelnuts, brazil nuts and their processed	-		
	product, intended for direct human consumption,	5		
227	removal of shell/husk			
3.2.7	Almonds, pistachios, apricot kernels and their	0		
	processed product, intended for direct human	8		
220	consumption, removal of shell/husk			
3.2.8	Other tree nuts and their processed product,	2		
	intended for direct human consumption, removal of shell/husk	Z		
3.3	Dried fruit			
3.3.1	Dried fruit raw material ⁽¹⁾ ,exclude of dried figs	5		
3.3.2	Dried figs and its processed product intended for	5		
5.5.2	direct human consumption	6		
3.3.3	Other dried fruit and its processed product			
5.5.5	intended for direct human consumption	2		
l	mondou for unou numun consumption			

3.4	 Following species of spices, unless otherwise provided, refers to the product as sold: <i>-Capsicum</i> spp. and its processed products, dried fruits thereof, including chillies, chilli powder, cayenne and paprika. <i>-Piper</i> spp. and its processed products, fruits thereof, including white and black pepper. <i>-Myristica fragrans</i> (nutmeg) <i>-Zingiber officinale</i> (ginger) <i>-Curcuma longa</i> (turmeric) -Mixtures of spices containing one or more of the abovementioned spices 	5
3.5	Food for infant and young child ⁽⁵⁾	
3.5.1	Cereal based foods for infant and young child ⁽¹¹⁾ and baby food ⁽¹⁰⁾	0.10 ⁽¹²⁾
3.5.2	Infant formula for special medical purposes ⁽⁹⁾	0.10 ⁽⁸⁾
4	Ochratoxin A	
	Foodstuffs	ML (µg/kg)
4.1	Grains	
4.1.1	Rice, maize, wheat, and other cereal grains, raw material ⁽¹⁾	5
4.1.2	Cereal grains and processed cereal-based products intended for direct human consumption	3
4.2	Peanuts and processed peanuts-based products intended for direct human consumption	3
4.3	Dried vine fruits (currants, raisins and sultanas)	10
4.4	Following species of spices, unless otherwise provided, refers to the product as sold:	
4.4.1	- <i>Piper</i> spp., including white and black pepper - <i>Myristica fragrans</i> (nutmeg) - <i>Zingiber officinale</i> (ginger) - <i>Curcuma longa</i> (turmeric)	15
4.4.2	- <i>Capsicum</i> spp., including chillies, chilli powder, cayenne and paprika	20
4.4.3	Mixtures of spices containing one or more of the abovementioned spices	15
4.5	Grape juice, concentrated grape juice as reconstituted and grape nectar, intended for direct human consumption	2
4.6	Coffee	
4.6.1	Roasted coffee beans and roasted coffee powder	5
4.6.2	Soluble coffee (instant coffee)	10

4.7	Food for infant and young child ⁽⁵⁾	
4.7.1	Cereal based foods for infant and young child ⁽¹¹⁾	$0.50^{(12)}$
	and baby food ⁽¹⁰⁾	
4.7.2	Infant formula for special medical purposes ⁽⁹⁾	$0.50^{(8)}$
5	Patulin	
	Foodstuffs	ML (µg/kg)
5.1	Solid apple products, including apple compote,	25
	apple puree intended for direct consumption	23
5.2	Beverage	
5.2.1	Fruit juices, concentrated fruit juices as	50
	reconstituted and fruit nectars	
5.2.2	Fermented drinks derived from apples or	50
	containing apple juice	
5.3	Food for infant and young child ⁽⁵⁾	
5.3.1	Apple juice and solid apple products, including	$10.0^{(8)}$
	apple compote and apple puree, for infant and	
	young child and labelled and sold as such	
5.3.2	Baby foods ⁽¹⁰⁾	$10.0^{(8)}$
6	Citrinin	
	Foodstuffs	ML (µg/kg)
6.1	Red yeast rice	5000
6.2	Complex food and food supplements containing	2000
	red yeast material	2000
6.3	Monascus color, the color value is converted to	200
	50	200
7	Fumonisins (B ₁ +B ₂₎	
	Foodstuffs	$ML (\mu g/kg)$
7.1	Grains	
7.1.1	Unprocessed maize ⁽¹⁴⁾	4000
7.1.2	Maize flour and maize meal	2000
7.1.3	Maize-based breakfast cereals and maize-based	800
	snacks	000
7.1.4	Maize and other maize-based foods, direct human	1000
	consumption	1000
7.2	Food for infant and young child ⁽⁵⁾	
7.2.1	Processed maize-based foods for infant and	$200^{(12)}$
	young child ⁽¹¹⁾ and baby foods ⁽¹⁰⁾	200
Q		
8	Deoxynivalenol (DON)	
	Foodstuffs	ML (µg/kg)
8.1	Foodstuffs Grains	
	Foodstuffs	ML (μg/kg) 1750 1250

8.1.3	Flour, meal, semolina and flakes derived from	1000
	wheat, maize or barley	1000
8.1.4	Pasta (dry, water content approximately 12 %)	750
8.1.5	Cereals, cereal flour, bran and germ for direct	750
0.1.6	human consumption ⁽¹³⁾	
8.1.6	Bread, biscuits, pastries, breakfast cereals and cereal snacks ⁽¹³⁾	500
8.2	Cereal based foods for infant and young child ⁽¹¹⁾ and baby food ⁽¹⁰⁾	200 ⁽¹²⁾
9	Zearalenone	
	Foodstuffs	ML (µg/kg)
9.1	Grains	
9.1.1	Unprocessed maize ⁽¹⁴⁾	350
9.1.2	Unprocessed cereals other than maize ^{(13) (14)}	100
9.1.3	Cereals, cereal flour, bran and germ for direct human consumption ⁽¹³⁾	75
9.1.4	Maize, maize-based snacks and maize-based breakfast cereals, direct human consumption	100
9.1.5	Bread, biscuits, pastries, cereal snacks and	
	breakfast cereals, exclude maize- snacks and	50
	maize-based breakfast cereals ⁽¹³⁾	
9.2	Refined maize oil	400
9.3	Cereal based foods for infant and young $child^{(11)}$ and baby food ^{(10) (13)}	20 ⁽¹²⁾
Noto		

Note.

⁽¹⁾ "Raw materials" means raw materials which have not been further sorted or processed/treatment. The processes or treatment means shelling, blanching followed by color sorting, and sorting by specific gravity and color (damage) to removal of raw materials which contaminated with mycotoxins, and reduce levels of aflatoxins.

- ⁽²⁾ Edible fats and oils are derived from vegetable, animal or marine origin. The raw materials shall comply with the provisions of the agricultural authorities include the good agriculture and animal husbandry; legitimate slaughtering, fishing and harvesting; meet the "Act Governing Food Safety and Sanitation", clean and fit for human consumption.
- ⁽³⁾Oilseeds include rapeseeds, sunflower seeds, linseeds and various kinds' melon seeds for extraction of oils, for example, pumpkin seed.
- ⁽⁴⁾ Milk is the normal mammary secretion of milking animals obtained from one or more milkings without either addition to it or extraction from it, intended for consumption as liquid milk or for further processing.
 Dehydrated milk (such as evaporated milk, milk powder) according to the concentration factor applicable limits.

⁽⁵⁾The term "infant" means a person not more than 12 months of age. The term "young child" means a person from the age of more than 12 months up to the age of three years (36 months).

- ⁽⁶⁾"Infant formula" means a breast-milk substitute specially manufactured to satisfy, by itself, the nutritional requirements of infant from birth to six months of age up to the introduction of appropriate complementary feeding.
- ⁽⁷⁾"Follow-up infant formula" means a food intended for use as formula of the weaning diet for the infant from six months to twelve months of age. Not suitable alone for infant under six months consumption.
- ⁽⁸⁾The ML refers to the products ready to use (marketed as such or after reconstitution as instructed by the manufacturer).
- ⁽⁹⁾"Infant formula for special medical purposes" means a substitute for human milk or infant formula, by itself, the special nutritional requirements of infant with specific disorder, disease or medical condition during the first months of life up to the introduction of appropriate complementary feeding.
- ⁽¹⁰⁾"Baby food" means food intended to fulfil the particular requirements of infant in good health while they are being weaned, and of young child in good health as a supplement to their diet and/or for their progressive adaptation to ordinary food, exclude cereal based foods for infant and young child, and milk-based drinks and similar products.
- young child, and milk-based drinks and similar products. (¹¹)"Cereal based foods for infant and young child" means processed cereal based food intended to fulfil the particular requirements of infant in good health while they are being weaned, and of young child in good health as a supplement to their diet and/or for their progressive adaptation to ordinary food, including cereals which are or have to be reconstituted with milk or other liquids, and pastas, rusks and biscuits.

⁽¹²⁾Dry weight basis.

⁽¹³⁾Rice and rice products are not applicable.

⁽¹⁴⁾" Unprocessed" means the raw material have been cleaning, sorting and drying procedures, but not have any physical or thermal treatment.

Appendix3. Maximum levels (ML) of other contaminants and

toxins

	3-Monochloropropane-1,2-diol (3-MCPD)	
	ML (mg/kg)	
1.1	Foodstuffs Soy sauce and soy sauce-based condiments ⁽¹⁾	0.4
2	Benzo(a)pyrene, BaP	
	Foodstuffs	ML (µg/kg)
2.1	Fats and oils (exclude cocoa butter) intended for	, c. c.
	direct human consumption or use as an ingredient	2.0
	in food	
2.2	2.2 Vegetables, fruits and plant origin	
2.2.1	Cocoa beans and derived products, based on the	5.0
	cocoa butter content	5.0
2.2.2	Banana chips	2.0
2.2.3	Dried herbs	10.0
2.2.4	Dried spices with the excepte of cardamon and	10.0
	smoked Capsicum spp.	10.0
2.3	2.3 Meat and meat products	
2.3.1	Smoked meat and smoked meat products	2.0
2.3.2	Grilling/barbecuing meat and meat products sold	5.0
	to the final consumer	5.0
2.4	Aquatic animal	
2.4.1	Smoked sprats and canned smoked sprats	
	$(Sprattus sprattus)^{(2)}$; Smoked Baltic herring ≤ 14	5.0
	cm length and canned smoked Baltic herring ≤ 14	5.0
	cm length (Clupea harengus membras) ⁽²⁾	
2.4.2	Smoked bivalve molluscs ⁽³⁾ (exclude shell)	6.0
2.4.3	Muscle meat of smoked fish and smoked fishery	
	products, exclude fishery products listed in points	
	2.4.1 and 2.4.2 ⁽²⁾ , exclude Katsuobushi (dried	
	bonito, Katsuwonus pelamis).	
	The ML for smoked crustaceans applies to	2.0
	muscle meat from appendages and abdomen. In	
	case of smoked crabs and crab-like crustaceans	
	(Brachyura and Anomura) it applies to muscle	
	meat from appendages.	
2.4.4	Bivalve molluscs (fresh, chilled or frozen,	5.0
	exclude shell) ⁽³⁾	5.0
2.5	Food for infant and young child ⁽⁴⁾	/7\
2.5.1	Infant formula ⁽⁵⁾ and follow-up infant formula ⁽⁶⁾	$1.0^{(7)}$
2.5.2	Infant formula for special medical purposes ⁽⁸⁾	$1.0^{(7)}$

2.5.3	Cereal based foods for infant and young child ⁽⁹⁾ and baby food ⁽¹⁰⁾	1.0 ⁽⁷⁾				
2.6	Food supplements					
2.6.1	Food supplements containing propolis and royal jellys	10.0 ⁽⁷⁾				
2.6.2	Food supplements containing spirulina or their preparations	10.0 ⁽⁷⁾				
3	Plant toxins					
3.1 Hydrocyanic acid						
	Foodstuffs	ML (mg/kg) 10 ⁽¹¹⁾				
3.1.1	Cassava flour, Ready-to-eat cassava chips					
3.1.2	Gari	2 ⁽¹²⁾				
3.2	Gossypol					
	Foodstuffs	ML (mg/kg)				
3.2.1	Edible cotton seed oil	Not detected ⁽¹³⁾				
3.3	3.3 Glycoalkaloids, total (sum of alpha-solanine and alpha-chaconine)					
	Foodstuffs	ML (mg/kg)				
3.3.1	Potato tubers (fresh weight)	200				
3.4	Erucic acid					
	Foodstuffs	ML (g/kg)				
3.4.1	Edible fats and oils	50				
3.4.2	Low-erucic acid rapeseed oil (as % of total fatty acids).	20				
3.4.3	Foods containing added edible vegetable oils and fats, excepte of foodstuffs listed in 3.4.4, based on the total oil content of that food	50				
3.4.4	Infant formulae ⁽⁵⁾ and follow-up infant formula ⁽⁶⁾ , based on the total oil content of that food.	10				
4	Marine biotoxins					
4.1 Paralytic shellfish poisons (PSP)						
	Foodstuffs	ML (mg/kg)				
4.1.1	The edible parts of live bivalve mollusk	0.8				
	(saxitoxin equivalent)	0.0				
4.2	Diarrhetic shellfish poisons (DSP)					
	Foodstuffs	ML (mg/kg)				
4.2.1	The edible parts of live bivalve mollusk (okadaic equivalent)	0.16				
4.3 Amnesic shellfish poisons (ASP)						
	Foodstuffs	ML (mg/kg)				
4.3.1	The edible parts of live bivalve mollusk (domoic acid)	20				
4.4	Azaspiracid (AZP)					

Foodstuffs		ML (mg/kg)				
4.4.1	The edible parts of live bivalve mollusk		0.16			
4.5	Neurotoxic shellfish poisons (NSP)- Brevetoxin (BTX) *					
	Foodstuffs		N	AL (MU/kg)		
4.5.1	The edible parts of live bivalve mollusk			200 ⁽¹⁴⁾		
5						
M			L (mg/100g)			
Foodstuffs		Existin	g	Total		
		pheophor	bide	pheophorbide		
5.1	Green algae ⁽¹⁵⁾	60		80		
5.2	Blue algae ⁽¹⁵⁾	50		100		
6	Volatile basic nitrogen (VBN)					
	Foodstuffs		Μ	L (mg/100 g)		
6.1	Unprocessed fishery products, frozen or					
6.1.1	Species belonging to the Pleuronectidae	e family,		30		
	excepte of halibut: <i>Hippoglossus</i> spp.).			30		
6.1.2	Salmo salar, species belonging to the					
	Merlucciidae family, species belonging	to the		35		
	<i>Gadidae</i> family.					
6.1.3	Elasmobranchii (Selachimorpha, Batoidea)		50			
6.1.4	Other unlisted fish	Other unlisted fish		25		
6.2	Ready-to-eat raw seafood	ly-to-eat raw seafood		15		
7	Histamine					
	Foodstuffs		I	ML (mg/kg)		
7.1	Fishery products from fish species with a high amount of histidine ⁽¹⁷⁾	associated		100 ⁽¹⁷⁾		
7.2	Fishery products which have undergone maturation treatment in brine, manufact fish species associated with a high amou histidine ⁽¹⁶⁾ , for example, the fermented sauces and pastes.	ured from int of		200 ⁽¹⁷⁾		
 Note. ⁽¹⁾ Such as soy sauce paste, oyster soy sauce etc. The ML applies to liquid condiments containing acid hydrolyzed vegetable proteins, does not apply to naturally fermented soy sauce. ⁽²⁾ Where fish are intended to be eaten whole, the ML shall apply to the whole fish. ⁽³⁾ In case of <i>Pecten maximus</i>, the ML applies to the adductor muscle and gonad only. ⁽⁴⁾ The term "infant" means a person not more than 12 months of age. The term "young child" means a person from the age of more than 12 months up to the age of three years (36 months). 						

- ⁽⁵⁾ "Infant formula" means a breast-milk substitute specially manufactured to satisfy, by itself, the nutritional requirements of infant from birth to six months of age up to the introduction of appropriate complementary feeding.
- ⁽⁶⁾ "Follow-up infant formula" means a food intended for use as formula of the weaning diet for the infant from six months to twelve months of age. Not suitable alone for infant under six months consumption.
- ⁽⁷⁾ The ML refers to the product as sold.
- ⁽⁸⁾ "Infant formula for special medical purposes" means a substitute for human milk or infant formula, by itself, the special nutritional requirements of infant with specific disorder, disease or medical condition during the first months of life up to the introduction of appropriate complementary feeding.
- ⁽⁹⁾"Cereal based foods for infant and young child" means processed cereal based food intended to fulfil the particular requirements of infant in good health while they are being weaned, and of young child in good health as a supplement to their diet and/or for their progressive adaptation to ordinary food, including cereals which are or have to be reconstituted with milk or other liquids, and pastas, rusks and biscuits.
- ⁽¹⁰⁾"Baby food" means food intended to fulfil the particular requirements of infant in good health while they are being weaned, and of young child in good health as a supplement to their diet and/or for their progressive adaptation to ordinary food, exclude cereal based foods for infant and young child, and milk-based drinks and similar products.
- ⁽¹¹⁾The ML is expressed as total hydrocyanic acid.
- ⁽¹²⁾The ML is expressed as free hydrocyanic acid.
- ⁽¹³⁾ The detection limit of analysis method is 0.05 ppm for free form gossypol and 1 ppm of total gossypol.
- ⁽¹⁴⁾ Mouse units or equivalent.
- ⁽¹⁵⁾The ML is applied to green algae and blue algae which moisture content is less than 7%. Fresh products, red algae and brown algae are not applied.
- ⁽¹⁶⁾The species of *Scombridae*, *Clupeidae*, *Engraulidae*, *Coryfenidae*,
- Pomatomidae and Scombresocidae families.
- ⁽¹⁷⁾ Products placed on the market during their shelf-life.