No. S 000

SALE OF FOOD ACT (CHAPTER 283)

FOOD (AMENDMENT) REGULATIONS 2017

In exercise of the powers conferred by section 56(1) of the Sale of Food Act, the Minister for National Development makes the following Regulations:

Citation and commencement

1. These Regulations are the Food (Amendment) Regulations 2017 and come into operation on 2017.

Amendment of regulation 9A

- **2.** Regulation 9A of the Food Regulations (Rg 1) is amended by inserting, immediately after paragraph (2), the following paragraphs:
 - "(3) In the case of prepacked foods that have been added with barley beta-glucan and meet the criteria in paragraph (4), the following claim may be made in a label:
 - "Barley beta-glucans have been shown to lower/reduce blood cholesterol. High blood cholesterol is a risk factor in the development of coronary heart disease.".
 - (4) The criteria mentioned in paragraph (3) are
 - (a) cholesterol, saturated fatty acids and trans fatty acids within the following levels:
 - (i) in the case of solid food
 - (A) not more than 20 mg of cholesterol per 100 g;
 - (B) not more than 1.5 g of saturated fatty acids and trans fatty acids per 100 g; and
 - (C) not more than 10% of kilocalories from saturated fatty acids and trans fatty acids; or

- (ii) in the case of liquid food
 - (A) not more than 10 mg of cholesterol per 100 ml;
 - (B) not more than 0.75 g of saturated fatty acids and trans fatty acids per 100 ml; and
 - (C) not more than 10% of kilocalories from saturated fatty acids and trans fatty acids; and
- (b) the label of the food must contain
 - (i) a statement or statements to the like effect that consumption of at least 3 g of barley beta-glucans in a day has been shown to lower blood cholesterol levels; and
 - (ii) a nutrition information panel in the form specified in the Twelfth Schedule or in such other similar form as may be acceptable to the Director-General, specifying the amounts of barley beta-glucan, cholesterol, saturated fatty acids and trans fatty acids, contained in the food."

3. Regulation 11(3) of the Food Regulations is amended by deleting the words "Notwithstanding anything to the contrary, no label" and substituting the words "No label".

Amendment of regulation 21

4. Regulation 21 of the Food Regulations is amended by inserting, immediately after paragraph (3), the following paragraph:

- "(3A) Quillaia extracts (Type I, II or both) may be used only in
 - (a) soft drinks, at a level not exceeding 50 ppm (calculated as saponins); and
 - (b) alcoholic beverages, at a level not exceeding 40 ppm (calculated as saponins).".

- **5.** Regulation 23(2) of the Food Regulations is amended
 - (a) by deleting the word "and" at the end of sub-paragraph (c); and
 - (b) by deleting the full-stop at the end of sub-paragraph (d) and substituting the word "; and", and by inserting immediately thereafter the following sub-paragraph:
 - "(e) L-theanine in the following foods at a level not exceeding 1000 ppm:
 - (i) brewed tea;
 - (ii) soft drinks;
 - (iii) chocolate;
 - (iv) chocolate confectionery;
 - (v) sugar confectionery.".

Amendment of regulation 28

- **6.** Regulation 28 of the Food Regulations is amended by deleting paragraph (6) and substituting the following paragraph:
 - "(6) Triethyl citrate may be used as a whipping agent in the following foods, at a level not exceeding 2500 ppm:
 - (a) liquid egg products;
 - (b) dried egg products, whether or not heat coagulated;
 - (c) heat coagulated egg products.".

- **7.** Regulation 31 of the Food Regulations is amended by inserting, immediately after paragraph (2), the following paragraph:
 - "(2A) A person must not import, sell, advertise, manufacture, consign or deliver any polished rice containing inorganic arsenic in excess of 0.2 ppm.".

Amendment of regulation 86

8. Regulation 86 of the Food Regulations is amended by deleting the words "0.916 and not more than 0.921" in paragraph (a) and substituting the words "0.915 and not more than 0.924".

Amendment of regulation 88

9. Regulation 88 of the Food Regulations is amended by deleting "125" in paragraph (*c*) and substituting "118".

Amendment of regulation 91

10. Regulation 91(2) of the Food Regulations is amended by deleting the word "Margarine" and substituting the words "Despite regulation 11(4), margarine".

Amendment of regulation 168

11. Regulation 168(1) of the Food Regulations is amended by deleting sub-paragraph (g).

Amendment of regulation 227

12. Regulation 227 of the Food Regulations is amended by deleting the words "may contain sulphur dioxide as a preservative and".

Amendment of regulation 250A

13. Regulation 250A(2) of the Food Regulations is amended by deleting the words "saturated fat" in sub-paragraphs (a) and (b) and substituting in each case the words "saturated fatty acids".

- **14.** Regulation 252(6) of the Food Regulations is amended by deleting the full-stop at the end of sub-paragraph (*e*) and substituting a semi-colon, and by inserting immediately thereafter the following sub-paragraph:
 - "(f) Beta-palmitin, with at least 52% of total palmitic acid esterified at the beta position, in an amount not exceeding 80% of the total fat content of infant formula."

Amendment of regulation 260

15. Regulation 260(1) of the Food Regulations is amended by deleting the word "kilograms" in sub-paragraph (c) and substituting the words "grams or kilograms, as appropriate".

Amendment of Part I of Fourth Schedule

- **16.** Part I of the Fourth Schedule to the Food Regulations is amended
 - (a) by deleting the words "Flour intended for use in the manufacture of biscuits" under the heading "Selected Foods" and substituting the words "Flour, all types";
 - (b) by deleting the item "Ginger, dry root" and its corresponding entry;
 - (c) by inserting, corresponding to the item "Hamburgers and similar products", the following entry in the appropriate column as shown:

	1	2	3	4	5	6	7
Hamburgers and similar					2,500		

"

(d) by inserting, immediately after the item "Hamburgers and similar products", the following item and its corresponding entry in the appropriate column as shown:

4	4
_	_

	1	2	3	4	5	6	7
Herbs and spices	150						

"

(e) by inserting, corresponding to the item "Meat, canned, cured, pickled, salted or smoked whether cooked or uncooked", the following entry in the appropriate column as shown:

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	1	2	3	4	5	6	7
Meat, canned, cured, pickled, salted or smoked whether cooked or uncooked					2,500		

"; and

(f) by inserting, corresponding to the item "Sausages, or sausage meat", the following entry in the appropriate column as shown:

"

	1	2	3	4	5	6	7
Sausages, or sausage meat					2,500		

"

Amendment of Part II of Fifth Schedule

- **17.** Part II of the Fifth Schedule to the Food Regulations is amended
 - (a) by inserting, immediately after the word "including" in paragraph 2(a), the words "beet red,"; and
 - (b) by inserting, immediately after paragraph 4, the following paragraph:
 - "5. Spirulina extract or cyanobacterial-phycocyanin extracted from *Spirulina platensis* that conforms to the following specifications:

- (a) not more than 2 mg/kg lead;
- (b) not more than 2 mg/kg arsenic;
- (c) not more than 1 mg/kg mercury;
- (d) negative for microcystin toxin.".

Amendment of Sixth Schedule

- **18.** The Sixth Schedule to the Food Regulations is amended
 - (a) by deleting the following item:
 - "Quillaia (only in soft drinks, not exceeding 200 parts per million);" and
 - (b) By inserting, immediately after the item "Polyglycerol esters of fatty acids", the following item:

"Polyglycerol polyricinoleate;".

Amendment of Seventh Schedule

19. Item 2 of Part II of the Seventh Schedule to the Food Regulations is amended by inserting, immediately after the entry "Sodium ferric pyrophosphate", the following entry:

"Sodium ferrous citrate".

Amendment of Eighth Schedule

- **20.** The Eighth Schedule to the Food Regulations is amended
 - (a) by inserting, immediately above the Schedule heading "PERMITTED GENERAL PURPOSE FOOD ADDITIVES", the following words:

"PART 1";

- (b) by deleting the following items in Part 1:
 - (i) Alpha-acetolactate decarboxylase (from a genetically modified strain of *Bacillus subtilis*);
 - (ii) Alpha-amylase (endo-amylase from a genetically modified strain of *Bacillus licheniformis*);
 - (iii) Alpha-amylase (from *Bacillus subtilis*);

- (iv) Aminopeptidase (from Aspergillus oryzae);
- (v) Asparaginase (from a genetically modified strain of *Aspergillus oryzae* or *Aspergillus niger*);
- (vi) Beta-galactosidase (lactase from *Kluyveromyces lactis*);
- (vii) Beta-glucanase (endo-glucanase from *Bacillus subtilis*);
- (viii) Beta-glucanase (endo-glucanase from *Hunicola insolens*);
 - (ix) Cellulase (from Trichoderma longibrachiatum);
 - (x) Chymosin (produced by Escherichia coli);
- (xi) Endo-protease (metallo protease from *Bacillus amyloliquefaciens*);
- (xii) Glucoamylase (amyloglucosidase from *Aspergillus niger*);
- (xiii) Glucose oxidase (from Aspergillus niger);
- (xiv) Glycerophospholipid cholesterol acyltransferase (from a genetically modified strain of *Bacillus licheniformis*);
- (xv) Hemicellulase (endo-1,4-β-xylanase from a genetically modified strain of *Aspergillus niger* or *Bacillus subtilis*);
- (xvi) Hexose oxidase (from a genetically modified strain of *Hansenula polymorpha*);
- (xvii) Invertase (from Saccharomyces cerevisiae);
- (xviii) Lipase (triacylglycerol acylhydrolase from a genetically modified strain of *Aspergillus niger*);
 - (xix) Lipase, triacylglycerol (from a genetically modified strain of *Aspergillus oryzae*);
 - (xx) Maltogenic amylase (amylase from a genetically modified strain of Bacillus subtilis);

- (xxi) Papain;
- (xxii) Pentosanase (xylanase or hemicellulase from a genetically modified strain of *Aspergillus oryzae*);
- (xxiii) Polygalacturonase (from Aspergillus niger);
- (xxiv) Protease (from Bacillus subtilis);
- (xxv) Serine protease with trypsin specificity (from a genetically modified strain of *Fusarium venenatum*);
- (xxvi) Transglutaminase (transferase prepared from *Streptoverticillium mobaraense* variant); and
- (c) by inserting, immediately after the item "Xylitol" in Part 1, the following Part:

"PART 2 PERMITTED ENZYMES

(A) Enzymes derived from animal sources

Enzyme	EC Number	Source
Catalase	1.11.1.6	Bovine liver
Lactoperoxidase	1.11.1.7	Bovine milk
Lipase, triacylglycerol	3.1.1.3	Bovine stomach; salivary glands or forestomach of calf, kid or lamb; porcine or bovine pancreas
Lysozyme	3.2.1.17	Egg whites
Pancreatin (or pancreatic elastase)	3.4.21.36	Pancreas of the hog or ox
Pepsin	3.4.23.1	Bovine or porcine stomach
Phospholipase A2	3.1.1.4	Porcine pancreas
Rennet	3.4.23.4	Aqueous extracts from the fourth stomach of calves, kids, lambs, and adult bovine animals, sheep and goats
Thrombin	3.4.21.5	Bovine or porcine blood
Trypsin	3.4.21.4	Porcine or bovine pancreas

(B) Enzymes derived from plant sources

Enzyme	EC Number	Source
Alpha-amylase	3.2.1.1	Malted cereals
Actinidin	3.4.22.14	Kiwifruit (Actinidia deliciosa)
Beta-amylase	3.2.1.2	Malted cereals
		Sweet potato (Ipomoea batatas)
Bromelain	3.4.22.4	Pineapple fruit/stem (Ananas comosus and Ananas bracteatus (L))
Ficin	3.4.22.3	Ficus spp.
Lipoxidase	1.13.11.12	Soyabean whey or meal
Papain	3.4.22.2	Carica papaya (L) (Fam. Caricaceae)

(C) Enzymes derived from microbial sources

Enzyme	EC Number	Production organism	Donor organism	Donor gene
1,4-alpha-glucan branching enzyme	2.4.1.18	Bacillus subtilis	Rhodothermus obamensis	1,4-alpha-glucan branching enzyme
		Geobacillus stearothermophilus ²		
Alpha-acetolactate decarboxylase	4.1.1.5	Bacillus amyloliquefaciens		
		Bacillus subtilis		
		Bacillus subtilis	Bacillus brevis	Alpha-acetolactate decarboxylase
Alpha-amylase	3.2.1.1	Aspergillus niger ¹		
		Aspergillus niger ¹	Aspergillus niger ¹	Alpha-amylase
		Aspergillus niger ¹	Rhizomucor pusillus	Alpha-amylase
		Aspergillus oryzae		
		Bacillus amyloliquefaciens		
		Bacillus amyloliquefaciens	Bacillus amyloliquefaciens	Alpha-amylase
		Bacillus licheniformis		
		Bacillus licheniformis	Bacillus amyloliquefaciens	Alpha-amylase
		Bacillus licheniformis	Bacillus licheniformis	Alpha-amylase
		Bacillus licheniformis	Bacillus licheniformis and Bacillus amyloliquefaciens	Alpha-amylase
		Bacillus licheniformis	Geobacillus stearothermophilus ²	Alpha-amylase
		Bacillus licheniformis	Pseudomonas stutzeri	Alpha-amylase
		Bacillus subtilis		
		Bacillus subtilis	Bacillus megaterium	Alpha-amylase
		Bacillus subtilis	Alicyclobacillus pohliae	Alpha-amylase
		Bacillus subtilis	Geobacillus stearothermophilus ²	Alpha-amylase
		Geobacillus stearothermophilus ²		
		Geobacillus stearothermophilus ²	Geobacillus stearothermophilus ²	Alpha-amylase
	_	Microbacterium imperiale		
		Pseudomonas fluorescens	Thermococcales	Alpha-amylase
		Rhizopus oryzae		
		Trichoderma longibrachiatum ³	Aspergillus kawachii	Alpha-amylase
Alpha- arabinofuranosidase	3.2.1.55	Aspergillus niger ¹		
Alpha-galactosidase	3.2.1.22	Aspergillus niger ¹		
Alpha-glucosidase (or maltase)	3.2.1.20	Aspergillus niger ¹		

Enzyme	EC Number	Production organism	Donor organism	Donor gene
		Aspergillus oryzae		
		Trichoderma longibrachiatum ³	Aspergillus niger ¹	Alpha-glucosidase (or maltase)
Aminopeptidase	3.4.11.1	Aspergillus oryzae		
		Lactocococcus lactis		
Amylomaltase	2.4.1.25	Bacillus amyloliquefaciens	Thermus thermophilus	Amylomaltase
Asparaginase	3.5.1.1	Aspergillus niger ¹		
		Aspergillus niger ¹	Aspergillus niger ¹	Asparaginase
		Aspergillus oryzae		
		Aspergillus oryzae	Aspergillus oryzae	Asparaginase
		Bacillus subtilis	Pyrococcus furiosus	Asparaginase
Aspergillopepsin I	3.4.23.18	Aspergillus niger ¹		
		Aspergillus oryzae		
		Trichoderma longibrachiatum ³	Trichoderma longibrachiatum³	Aspergillopepsin I
Aspergillopepsin II	3.4.23.19	Aspergillus niger ¹		
Beta-amylase	3.2.1.2	Bacillus amyloliquefaciens		
		Bacillus subtilis		
Beta-fructofuranosidase (invertase or saccharase)	3.2.1.26	Aspergillus japonicus		
		Aspergillus niger ¹		
		Saccharomyces cerevisiae		
Beta-galactosidase (or lactase)	3.2.1.23	Aspergillus niger ¹		
		Aspergillus niger ¹	Aspergillus oryzae	Beta-galactosidase (or lactase)
		Aspergillus oryzae		
		Bacillus circulans ATCC 31382		
		Bacillus subtilis	Bifidobacterium bifidum	Beta-galactosidase (or lactase)
		Kluyveromyces lactis ⁴		
		Kluyveromyces marxianus ⁵		
		Saccharomyces sp.		
Beta-glucanase (endo- beta glucanase or endo- 1,3-beta-glucanase)	3.2.1.6	Aspergillus niger ¹		
		Aspergillus oryzae		
		Bacillus amyloliquefaciens		
		Bacillus amyloliquefaciens	Bacillus amyloliquefaciens	Beta-glucanase (endo-beta glucanase or endo-1,3-beta- glucanase)
		Bacillus subtilis		
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Enzyme	EC Number	Production organism	Donor organism	Donor gene
		Bacillus subtilis	Bacillus subtilis	Beta-glucanase (endo-beta glucanase or endo-1,3-beta- glucanase)
		Disporotrichum dimorphosphorum		
		Humicola insolens		
		Rasamsonia emersonii ⁶		
		Trichoderma longibrachiatum ³		
Beta-glucosidase	3.2.1.21	Aspergillus niger ¹		
Carboxylesterase	3.1.1.1	Rhizomucor miehei ⁷		
Carboxypeptidase C	3.4.16.5	Aspergillus niger ¹	Aspergillus niger ¹	Carboxypeptidase C
Catalase	1.11.1.6	Aspergillus niger ¹		
		Aspergillus niger ¹	Aspergillus niger ¹	Catalase
		Micrococcus luteus ⁸		
Cellulase	3.2.1.4	Aspergillus niger ¹		
		Penicillium funiculosum		
		Rasamsonia emersonii ⁶		
		Trichoderma longibrachiatum ³		
		Trichoderma longibrachiatum ³	Trichoderma longibrachiatum ³	Cellulase
		Trichoderma viride		
Chymosin	3.4.23.4	Aspergillus niger ¹		
		Aspergillus niger var. awamori	Camelus dromedarius	Chymosin
		Escherichia coli K-12 strain GE81		
		Kluyveromyces lactis ⁴		
		Kluyveromyces lactis ⁴	Calf prochymosin B	Chymosin
Cyclodextrin glucanotransferase	2.4.1.19	Bacillus licheniformis	Thermoanaerobacter sp.	Cyclodextrin glucanotransferase
		Paenibacillus macerans ⁹		
Deaminase	3.5.4.6	Aspergillus melleus		
Dextranase	3.2.1.11	Chaetomium erraticum		
		Chaetomium gracile		
		Penicillium lilacinum		
Endo-arabinase	3.2.1.99	Aspergillus niger ¹		
Endo-protease	3.4.21.26	Aspergillus niger ¹		
		Aspergillus niger ¹	Aspergillus niger ¹	Endo-protease
Glucan 1,3-beta- glucosidase	3.2.1.58	Trichoderma harzianum		
Endo-1,3-beta-xylanase	3.2.1.32	Humicola insolens		
Endo-1,4-beta-xylanase	3.2.1.8	Aspergillus niger¹		

Enzyme	EC Number	Production organism	Donor organism	Donor gene
		Aspergillus niger ¹	Aspergillus niger ¹	Endo-1,4-beta-xylanase
		Aspergillus niger ¹	Rasamsonia emersonii ⁶	Endo-1,4-beta-xylanase
		Aspergillus oryzae		
		Aspergillus oryzae	Aspergillus aculeatus	Endo-1,4-beta-xylanase
		Aspergillus oryzae	Humicola lanuginosa ¹⁰	Endo-1,4-beta-xylanase
		Bacillus amyloliquefaciens		
		Bacillus licheniformis	Bacillus licheniformis	Endo-1,4-beta-xylanase
		Bacillus subtilis		
		Bacillus subtilis	Bacillus subtilis	Endo-1,4-beta-xylanase
		Disporotrichum dimorphosphorum		
		Humicola insolens		
		Rasamsonia emersonii ⁶		
		Trichoderma longibrachiatum ³		
		Trichoderma longibrachiatum ³	Aspergillus niger ¹	Endo-1,4-beta-xylanase
		Trichoderma longibrachiatum ³	Aspergillus tubingensis	Endo-1,4-beta-xylanase
		Trichoderma longibrachiatum ³	Thermopolyspora flexuosa ¹¹	Endo-1,4-beta-xylanase
Glucoamylase (or amyloglucosidase)	3.2.1.3	Aspergillus niger ¹		
		Aspergillus niger ¹	Aspergillus niger ¹	Glucoamylase (or amyloglucosidase)
		Aspergillus niger ¹	Penicillium oxalicum	Glucoamylase (or amyloglucosidase)
		Aspergillus niger ¹	Talaromyces emersonii	Glucoamylase (or amyloglucosidase)
		Aspergillus niger ¹	Trametes cingulata	Glucoamylase (or amyloglucosidase)
	\	Aspergillus oryzae		
		Rhizopus delemar		
		Rhizopus niveus		
		Rhizopus oryzae		
		Trichoderma longibrachiatum ³	Trichoderma longibrachiatum ³	Glucoamylase (or amyloglucosidase)
Glucose isomerase (or xylose isomerase)	5.3.1.5	Actinoplanes missouriensis		
		Bacillus coagulans		
		Microbacterium arborescens		
		Streptomyces olivaceus		
		Streptomyces olivochromogenes		
		Streptomyces murinus		
		Streptomyces rubiginosus		

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Fusarium oxysporum Candida rugosa Hansenula polymorpha ¹² Fusarium heterosporum Lipase, triacylgl	cerol
Hansenula polymorpha ¹² Fusarium heterosporum Lipase, triacylgl	rcerol
Mucor javanicus ¹³	/cerol
Penicillium roquefortii ¹⁴	
Rhizomucor miehei ⁷	
Rhizopus arrhizus	
Rhizopus niveus	
Rhizopus oryzae	
Lysophospholipase 3.1.1.5 Aspergillus niger ¹	
Aspergillus niger¹ Aspergillus niger¹ Lysophospholip	ise
Trichoderma longibrachiatum³ Aspergillus nishimurae Lysophospholip	ise
Maltogenic alpha- amylase 3.2.1.133 Bacillus licheniformis Geobacillus stearothermophilus² Maltogenic alph	ı-amylase
Bacillus subtilis Geobacillus Maltogenic alph stearothermophilus ²	ı-amylase
Maltotetraohydrolase 3.2.1.60 Bacillus licheniformis Pseudomonas stutzeri Maltotetraohydr	olase

Enzyme	EC Number	Production organism	Donor organism	Donor gene
Mannan endo-1,4-beta- mannosidase	3.2.1.78	Aspergillus niger ¹		
		Bacillus amyloliquefaciens		
		Bacillus subtilis		
		Trichoderma longibrachiatum ³		
		Trichoderma longibrachiatum ³	Trichoderma longibrachiatum³	Mannan endo-1,4-beta- mannosidase
Metalloproteinase ¹⁵	3.4.24.4	Aspergillus oryzae		
		Bacillus amyloliquefaciens	_	
		Bacillus amyloliquefaciens	Bacillus amyloliquefaciens	Metalloproteinase
		Bacillus coagulans		
		Bacillus subtilis		
		Bacillus subtilis	Bacillus amyloliquefaciens	Metalloproteinase
		Geobacillus caldoproteolyticus		
		Geobacillus stearothermophilus ²		7
Mucorpepsin (or aspartic proteinase)	3.4.23.23	Aspergillus oryzae		
		Aspergillus oryzae	Rhizomucor miehei ⁷	Aspartic proteinase
		Cryphonectria parasitica		
		Rhizomucor miehei ⁷		
Pectin esterase	3.1.1.11	Aspergillus niger¹		
		Aspergillus niger ¹	Aspergillus niger¹	Pectin esterase
		Aspergillus oryzae	Aspergillus aculeatus	Pectin esterase
Pectin lyase	4.2.2.10	Aspergillus niger ¹		
		Aspergillus niger ¹	Aspergillus niger ¹	Pectin lyase
		Trichoderma longibrachiatum ³	Aspergillus niger ¹	Pectin lyase
Peroxidase	1.11.1.7	Aspergillus niger ¹	Marasmius scorodonius	Peroxidase
Phosphodiesterase I	3.1.4.1	Leptographium procerum		
Phospholipase A1	3.1.1.32	Aspergillus oryzae	Fusarium venenatum	Phospholipase A1
Phospholipase A2	3.1.1.4	Aspergillus niger ¹	Porcine pancreas	Phospholipase A2
		Streptomyces violaceoruber		
		Trichoderma longibrachiatum ³	Aspergillus nishimurae	Phospholipase A2
Phospholipase C	3.1.4.3	Pichia pastoris	Isolated from soil	Phospholipase C
3-Phytase	3.1.3.8	Aspergillus niger ¹		
		Aspergillus niger ¹	Aspergillus niger¹	3-Phytase
4-Phytase	3.1.3.26	Aspergillus oryzae	Peniophora lycii	4-Phytase
Polygalacturonase (pectinase)	3.2.1.15	Aspergillus niger ¹		

Enzyme	EC Number	Production organism	Donor organism	Donor gene
		Aspergillus niger ¹	Aspergillus niger ¹	Polygalacturonase (pectinase)
		Aspergillus oryzae		
		Aspergillus oryzae	Aspergillus aculeatus	Polygalacturonase (pectinase)
		Rhizopus oryzae		
		Trichoderma longibrachiatum ³		
Protein-glutaminase	3.5.1.44	Chryseobacterium proteolyticum		
Pullulanase	3.2.1.41	Bacillus acidopullulyticus		
		Bacillus amyloliquefaciens		
		Bacillus licheniformis		
		Bacillus licheniformis	Bacillus deramificans	Pullulanase
		Bacillus subtilis		
		Bacillus subtilis	Bacillus acidopullulyticus	Pullulanase
		Bacillus subtilis	Bacillus deramificans	Pullulanase
		Bacillus subtilis	Bacillus naganoensis	Pullulanase
		Klebsiella pneumoniae ¹⁶		
		Pullulanibacillus sp.		
Ribonuclease	3.1.26.5	Penicillium citrinum		
Serine proteinase ¹⁷	3.4.21.14	Aspergillus melleus		
		Aspergillus oryzae	V	
		Bacillus amyloliquefaciens		
		Bacillus halodurans		
		Bacillus licheniformis		
		Bacillus subtilis		
Serine protease (Chymotrypsin)	3.4.21.1	Bacillus licheniformis	Nocardiopsis prasina	Serine protease (Chymotrypsin)
Serine protease with trypsin specificity	3.4.21.4	Fusarium venenatum	Fusarium oxysporum	Serine protease with trypsin specificity
Tannase	3.1.1.20	Aspergillus oryzae		
Transglucosidase	2.4.1.24	Aspergillus niger ¹		
		Trichoderma longibrachiatum ³	Aspergillus niger	Transglucosidase
Transglutaminase	2.3.2.13	Streptomyces mobaraensis ¹⁸		
Urease	3.5.1.5	Lactobacillus fermentum		
				1

Aspergillus niger group includes A. aculeatus, A. awamori, A. ficuum, A. foetidus, A. japonicus, A. phoenicis, A. saitor and A. usamii.
 Geobacillus stearothermophilus – former name Bacillus stearothermophilus.
 Trichoderma longibrachiatum also known as Trichoderma reesei.
 Kluyveromyces lactis – former name Saccharomyces lactis.
 Kluyveromyces marxianus – former name Saccharomyces fragilis and Kluyveromyces fragilis.
 Rasamsonia emersonii – former name Talaromyces emersonii.
 Rhizomucor miehei – former name Mucor miehei.

Amendment of Ninth Schedule

- 21. The Ninth Schedule to the Food Regulations is amended by deleting the following items and their corresponding entries:
 - (a) Captafol;
 - (b) Carbophenothion;
 - (c) Chlordimeform and metabolites determined its as 4-chloro-o-toluidine and expressed as chlordimeform;
 - (d) Crufomate;
 - (e) Dioxathion;
 - (f) Diphenyl;
 - (g) Etrimfos;
 - (h) Fenchlorphos;
 - (i) Fensulphothion;
 - (j) Formothion;
 - (k) Mevinphos.

Amendment of Tenth Schedule

22. The Tenth Schedule to the Food Regulations is amended by deleting item (20) of sub-paragraph (b) and substituting the following items:

"	(20)	Infant formula	0.1	0.01	20	
				(applicable		
				to infant		
				formula as		
				consumed)		
	(20A)	Baby food	0.1	0.2	20	"

Micrococcus luteus - former name Micrococcus lysodeikticus

Paenibacillus macerans – former name Bacillus macerans.
 Humicola lanuginosa also known as Thermomyces lanuginosus.

<sup>Thermicola lanuginosa also known as Thermomyces lanuginosus.

Thermopolyspora flexuosa – former name Nonomuraea flexuosa.

Hansenula polymorpha also known as Pichia angusta.

Mucor javanicus also known as Mucor circinelloides f. circinelloides.

Penicillium roquefortii also known as Penicillium roqueforti.</sup>

Frencinium roquerorii aiso known ais remcinium roquerorii.

Metalloproteinase (EC 3.4.24.4) includes vibriolysin (EC 3.4.24.25), pseudolysin (EC 3.4.24.26), thermolysin (3.4.24.27), bacillolysin (EC 3.4.24.28), aureolysin (EC 3.4.24.29), coccolysin (EC 3.4.24.30), mycolysin (EC 3.4.24.31), beta-lytic metalloendopeptidase (EC 3.4.24.32), deuterolysin (EC 3.4.24.39), serralysin (EC 3.4.24.40).

16 Klebsiella pneumoniae – former name Klebsiella aerogenes.

17 Serine proteinase (EC 3.4.21.14) includes oryzin (EC 3.4.21.63).

18 Streptomyces mobaraensis – former name Streptoverticillium mobaraense.

Amendment of Thirteenth Schedule

- **23.** The Thirteenth Schedule to the Food Regulations is amended
 - (a) by inserting, corresponding to the item "Dairy-based drinks (flavoured and/or fermented)", the following entry in the appropriate column as shown:

	1	2	3	4	5	6
Dairy-based drinks (flavoured and/or fermented)					200	

"

(b) by inserting, immediately below the item "Ready-to-drink coffee, coffee substitutes, tea, herbal infusions and other hot cereal and grain beverages (excluding cocoa), and pre-mixes for such products", the following item and its corresponding entry in the appropriate column as shown:

۲,

	1_1_	2	3	4	5	6
Soybean-based beverages					200	

"

(c) by inserting, immediately below the item "Fermented vegetable and seaweed products, excluding fermented soybean products", the following item and its corresponding entry in the appropriate column as shown:

"

	1	2	3	4	5	6
Vegetable, nut and seed spreads					330	

"

(d) by inserting, corresponding to the item "Cocoa and chocolate products", the following entry in the appropriate column as shown:

٠,

	1	2	3	4	5	6
Cocoa and chocolate products					550	

"

(e) by inserting, corresponding to the item "Confectionery (including hard and soft candy, nougats and marzipans)", the following entry in the appropriate column as shown:

"

	1	2	3.	4	5	6
Confectionery (including hard and soft candy, nougats and marzipans)					700	

,,

(f) by inserting, corresponding to the item "Seasonings and condiments (excluding sauces)", the following entry in the appropriate column as shown:

٠,

	1	2	3	4	5	6
Seasonings and condiments (excluding sauces)					30	

"; and

(g) by inserting, corresponding to the item "Sauces, gravies and dressings, and their mixes", the following entry in the appropriate column as shown:

"

	1	2	3	4	5	6
Sauces, gravies and dressings, and their mixes					350 (except for soybean sauces, where up to 165 ppm is permitted)	

,

Amendment of Fourteenth Schedule

- **24.** Item 3 of the Fourteenth Schedule to the Food Regulations is amended by deleting items 1 and 2 under the heading "Criteria for food on which claim is made" and substituting the following items:
 - "1. Low in saturated fatty acids (not more than 1.5g saturated fatty acids per 100g, and not more than 10% of kilocalories from saturated fatty acids), or
 - Free of saturated fatty acids (not more than 0.5g saturated fatty acids per 100g, and not more than 1% of the total fat is trans fatty acids); and
 - 2. Free of trans fatty acids (less than 0.5g trans fatty acids per 100g); and".

 [G.N. Nos. S 515/2006; S 195/2011; S 175/2012; S 444/2012; S 493/2013; S 816/2014; S 49/2016]

Made on

2017.

OW FOONG PHENG

Permanent Secretary, Ministry of National Development, Singapore.

[ND 202/1-76 V4; AG/LEGIS/SL/283/2015/1 Vol. 2]

(To be presented to Parliament under section 56(4) of the Sale of Food Act).

Note 1:FJH/Food (Amdt) Reg 2017 (v08.01) (angela 20.10.2016)(fjh 12.12.16)(jw 19.10.16 & 9.11.16)

