(Unofficial)

Notification of the Ministry of Public Health (No.364) B.E.2556 (2013) Re: Standards for Pathogenic Microorganisms in Food

It deems appropriate to amend the Notification of the Ministry of Public Health, Re: Standards for Pathogenic Microorganisms in Food

By the virtue of provisions of Section 5 and 6(2) and (3) of the Food Act B.E.2522 (1979), in which contain provisions in relation to the restriction of Rights and Liberties of the Persons, in respect of which Section 29 and in conjunction with Section 33, Section 41, Section 43 and Section 45 of the constitution of the Kingdom of Thailand so permit by virtue of provisions of law; the Minister of Public Health hereby issues the notification as follows:

Clause 1. The Notification of the Ministry of Public Health Re: Standards for Pathogenic Microorganisms in Food , dated 10th February B.E. 2552 (2009) shall be repealed.

Clause 2. Food listed in Annex 1 of this Notification shall be free from pathogenic microorganisms except for pathogenic microorganisms specified in Annex 2 and 3 of this Notification.

Clause 3. This Notification shall not be enforced to health supplement products, food additives and other food which have specific requirements for pathogenic microorganisms.

Clause 4. This notification shall come into force from the day following date of its publication in the Government Gazette.

Notified on 25th September B.E. 2556 (2013)

(Signed) Pradit Sinthawanarong (Mr. Pradit Sinthawanarong)

Minister of Public Health

(Published in the Government Gazette Vol. 130, Special Part 148 Ngor, dated 31st October 2013.)

Note: This English version of the notification is translated to meet the need of the non-Thai speaking people. In case of any discrepancy between the Thai original and the English translation, the former will take priority.

Annex 1

List of food products followed the Notification of the Ministry of Public Health

Attachment to the Notification of the Ministry of Public Health (No. 364) B.E. 2556 (2013)

Re: Pathogenic Microorganisms in Foods

- _____
- 1. Modified Milk for Infants and Follow-up Formula Modified Milk for Infants and Young Children
- 2. Infant Foods and Follow-up Formula Food for Infant and Young Children
- 3. Supplementary Foods for Infant and Young Children
- 4. Cow's Milk
- 5. Flavoured Milk
- 6. Other Milk Products
- 7. Cheese
- 8. Cream
- 9. Ice Cream
- 10. Beverages in Sealed Containers
- 11. Drinking Water in Sealed Containers
- 12. lce
- 13. Chocolates
- 14. Weight-control Foods
- 15. Foods in Sealed Containers
- 16. Semi-processed Foods
- 17. Some Particular Kinds of Sauces
- 18. Food Seasonings derived from the Hydrolysis or Fermentation of Soy Bean Protein
- 19. Alkaline-preserved Eggs
- 20. Fermented Milk
- 21. Electrolyte Drinks
- 22. Tea
- 23. Coffee
- 24. Soybean Milk in Sealed Containers
- 25. Natural Mineral Water
- 26. Butter Oil
- 27. Margarine, Blends, Fat spreads, and Blended fat spreads
- 28. Honey
- 29. Jam, Jelly, and Marmalade in Sealed Containers
- 30. Ghee
- 31. Butter
- 32. Herbal Tea
- 33. Processed Gelatin and Jelly Desserts
- 34. Sauces in Sealed Containers
- 35. Bread
- 36. Husked Rice Flour
- 37. Fortified Rice with Vitamins.
- 38. Ready-to-Cook foods and Ready-to-Eat foods

Annex 2

Requirement on Pathogenic Microorganisms in Foods

Attachment to the Notification of the Ministry of Public Health (No. 364) B.E. 2556 (2013)

Re: Pathogenic Microorganisms in Foods

Food product	Type of pathogen	Requirement
1. Modified Milk for Infants	1. Salmonella spp.	Shall not be detected in 25 g
(powder or dried)	2. Staphylococcus aureus	Shall not be detected in 0.1 g
2. Infant Foods (powder or dried)	3. Bacillus cereus	Shall not more than 100 cfu/g
	4. Cronobacter sakazakii	Shall not be detected in 10 g
3. Follow-up Formula Modified	1. Salmonella spp.	Shall not be detected in 25 g
Milk for Infants and Young	2. Staphylococcus aureus	Shall not be detected in 0.1 g
Children (powder or dried)	3. Bacillus cereus	Shall not more than 100 cfu/g
4. Follow-up Formula Food for		
Infant and Young Children		
(powder or dried)		
5. Supplementary Foods for Infant	1. Salm <mark>one</mark> lla spp.	Shall not be detected in 25 g
and Young Children (powder or	2. Staphylococcus aureus	Shall not be detected in 0.1 g
dried)	3. Bacillus cereus	Shall not more than 100 cfu/g
	4. Clostridium perfringens	Shall not more than 100 cfu/g
6. Ready-to-drink milk passed		
through the heat treatment		
process by Pasteurization		
(6.1) Cow's Milk	1. Salmonella spp.	Shall not be detected in 25 ml
(6.2) Flavoured Milk	2. Staphylococcus aureus	Shall not be detected in 0.1 ml
(6.3) Other Milk Products	3. Bacillus cereus	Shall not more than 100 cfu/ml
(6.4) Other Milk Products beside	4. Listeria monocytogenes	Shall not be detected in 25 ml
cow's milk		
7. Powder Milk	1. Salmonella spp.	Shall not be detected in 25 g
8. Flavoured Milk (dry)	2. Staphylococcus aureus	Shall not be detected in 0.1 g
9. Other Milk Products (dry)	3. Bacillus cereus	Shall not more than 100 cfu/g
10. Cheese		
(10.1) a _W ≥0.9	1. Salmonella spp.	Shall not be detected in 25 g
	2. Staphylococcus aureus	Shall not be detected in 0.1 g
	3. Bacillus cereus	Shall not more than 100 cfu/g
	4. Clostridium perfringens	Shall not more than 100 cfu/g
	5. Listeria monocytogenes	Shall not be detected in 25 g

Food product	Type of pathogen	Requirement
(10.2) a _w between 0.82-0.9	1. Salmonella spp.	Shall not be detected in 25 g
	2. Staphylococcus aureus	Shall not be detected in 0.1 g
	3. Bacillus cereus	Shall not more than 500 cfu/g
	4. Listeria monocytogenes	Shall not be detected in 25 g
$(10.3) a_W \le 0.82$	1. Salmonella spp.	Shall not be detected in 25 g
	2. Staphylococcus aureus	Shall not be detected in 0.1 g
	3. Listeria monocytogenes	Sha <mark>ll no</mark> t be detected in 25 g
11. Cream		
(11.1) Dried cream	1. Salmonella spp.	Shall not be detected in 25 g
	2. Staphylococcus aureus	Shall not be detected in 0.1 g
	3. Bacillus cereus	Shall not more than 100 cfu/g
(11.2) Cream which is passed	1. Salmonella spp.	Shall not be detected in 25 g
through the heat treatment	2. Staphylococcus aureus	Shall not be detected in 0.1 g
process by Pasteurization	3. Bacillus cereus	Shall not more than 100 cfu/g
	4. Listeria monocytogenes	Shall not be detected in 25 g
12. Ice Cream		
(12.1) Milk ice cream, modified ice	1. Salmonella spp.	Shall not be detected in 25 g
cream, mixed ice cream	2. Staphylococcus aureus	Shall not be detected in 0.1 g
	3. Bacillus cereus	Shall not more than 500 cfu/g
	4. Listeria monocytogenes	Shall not be detected in 25 g
(12.2) Milk ice cream, modified ice	1. Salmonella spp.	Shall not be detected in 25 g
cream, mixed ice cream (fluid form	2. Staphylococcus aureus	Shall not be detected in 0.1 g
which is passed through the heat	3. Bacillus cereus	Shall not more than 100 cfu/g
treatment process by Pasteurization	4. Listeria monocytogenes	Shall not be detected in 25 g
and powder or dried form)		
13 Ready-to-drink products which		
have pH \geq 4.3 and are passed		
through the heat treatment		
process by Pasteurization.		
(13.1) Beverages ⁽¹⁾	1. Salmonella spp.	Shall not be detected in 25 ml.
(13.2) Tea		
(13.3) Coffee	2. Staphylococcus aureus	Shall not be detected in 0.1 ml.
(13.4) Soybean Milk	3. Bacillus cereus	Shall not more than 100 cfu/ml
	4. Clostridium perfringens	Shall not more than 100 cfu/ml.,
		except in Bird's Nest Beverage
		shall not more than 1,000 cfu/ml.
	5. Listeria monocytogenes ⁽²⁾	Shall not be detected in 25 ml.

Food product	Type of pathogen	Requirement
14. Concentrated or dried	1. Salmonella spp.	Shall not be detected in 25 g
beverages	2. Staphylococcus aureus	Shall not be detected in 0.1 g
	3. Bacillus cereus	Shall not more than 100 cfu/g
	4. Clostridium perfringens ⁽³⁾	Shall not more than 100 cfu/g
	5. Listeria monocytogenes ⁽²⁾	Shall not be detected in 25 g
15. Semi-processed Foods		
(15.1) Paste of rice flour, Noodle,	1. Salmonella spp.	Sha <mark>ll no</mark> t be detected in 25 g
Chinese vermicelli, Rice	2. Staphylococcus aureus	Shall not be detected in 0.1 g
vermicelli, Seasoned Mung bean	3. Bacillus cereus	Shall not more than 100 cfu/g
vermicelli		
(15.2) Seasonings of noodle in	1. Salmonella spp.	Shall not be detected in 25 g
sealed containers, Paste of rice	2. Staphylococcus aureus	Shall not be detected in 0.1 g
flour, Chinese vermicelli, Rice	3. Bacillus cereus	Shall not more than 1,000 cfu/g
vermicelli, and Mung bean	4. Clostridium perfringens	Shall not more than 1,000 cfu/g
vermicelli		
(15.3) Seasoned soft-boiled rice	1. Salmonella spp.	Shall not be detected in 25 g
and rice porridge, mildly	2. Staphylococcus aureus	Shall not be detected in 0.1 g
seasoned soup, and soup	3. Bacillus cereus	Shall not more than 200 cfu/g
(powdered or dried form)	4. Clostridium perfringens	Shall not more than 100 cfu/g
(15.4) Mildly seasoned soup, and	1. Salmonella spp.	Shall not be detected in 25 g
concentrated soup or Bouillon	2. Staphylococcus aureus	Shall not be detected in 0.1 g
cubes ⁽⁴⁾	3. Bacillus cereus	Shall not more than 1,000 cfu/g
	4. Clostridium perfringens	Shall not more than 100 cfu/g
(15.5) Curry and chilli pastes ⁽⁴⁾	1. Salmonella spp.	Shall not be detected in 25 g
	2. Staphylococcus aureus	Shall not be detected in 0.1 g
	3. Bacillus cereus	Shall not more than 1,000 cfu/g
	4. Clostridium perfringens	Shall not more than 1,000 cfu/g
16. Some Particular Kinds of	1. Salmonella spp.	Shall not be detected in 25 g
Sauces ⁽⁴⁾	2. Staphylococcus aureus	Shall not be detected in 0.1 g
	3. Bacillus cereus	Shall not more than 1,000 cfu/g
	4. Clostridium perfringens	Shall not more than 100 cfu/g

Food product	Type of pathogen	Requirement
17. Food Seasonings derived from	1. Salmonella spp.	Shall not be detected in 25 g or ml.
the Hydrolysis or Fermentation of	2. Staphylococcus aureus	Shall not be detected in 0.1 g or ml.
Soy Bean Protein	3. Bacillus cereus	Shall not more than 1,000 cfu/g or cfu/ml.
	4. Clostridium perfringens	Shall not more than 1,000 cfu/g or cfu/ml.
18. Alkaline-preserved Eggs	1. Salmonella spp.	Shall not be detected in 25 g
	2. Staphylococcus aureus	Shall not be detected in 0.1 g
	3. Clostridium perfringens	Shall not more than 100 cfu/g
19. Other food products under 1- 32 of Annex 1 both food type and process apart from determined in	1. Salmonella spp.	Shall not be detected in 25 g or ml., except in drinking water and ice shall not be detected in 100 ml.
1-18 of Annex 2	2. Staphylococcus aureus	Shall not be detected in 0.1 g or ml., except in drinking water and ice shall not be detected in 100 ml.

<u>Remark</u>

⁽¹⁾ Food products under 13.1 as Aloe vera beverages shall determine only *Salmonella* spp., *Staphylococcus aureus*, and *Bacillus cereus*.

⁽²⁾ Food products under 13 contained milk and food products under 14 that concentrated beverages contained milk only shall also determine *Listeria monocytogenes*

⁽³⁾ Food product under 14 as Cereal beverages shall also determine *Clostridium perfringens*

⁽⁴⁾ For food products which are passed through any process that cannot destroy or inhibit microbial growth by thermal treatment before or after a packing step in sealed containers which are made of metal or other rigid forms materials that can prevent transmission of air into the container and can be kept at room temperature.

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Annex 3

Requirement on Pathogenic Microorganisms in Foods

Attachment to the Notification of the Ministry of Public Health (No. 364) B.E. 2556 (2013)

Re: Pathogenic Microorganisms in Foods

		1
Food product	Type of pathogen	Requirement
1. Processed Gelatin and Jelly	1. Salmonella spp.	Shall not be detected in 25 g
Desserts, not in dried form	2. Staphylococcus aureus	Shall not be detected in 0.1 g
	3. Clostridium perfringens	Shall not more than 100 cfu/g
2. Sauces in Sealed Containers ⁽⁴⁾		
(2.1) Other kind of sauces	1. Salmonella spp.	Shall not be detected in 25 g
	2. Staphylococcus aureus	Shall not be detected in 0.1 g
	3. Bacillus cereus	Shall not more than 1,000 cfu/g
	4. Clostridium perfringens	Shall not more than 1,000 cfu/g
(2.2) Tao Chiew (Fermented	1. Salmonella spp.	Shall not be detected in 25 g
soybean)	2. Staphylococcus aureus	Shall not be detected in 0.1 g
	3. Bacillus cereus	Shall not more than 2,500 cfu/g
	4. Clostridium perfringens	Shall not more than 1,000 cfu/g
(2.3) Various kind of sauce <mark>s</mark>	1. Salmonella spp.	Shall not be detected in 25 g
	2. Staphylococcus aureus	Shall not be detected in 0.1 g
	3. Bacillus cereus	Shall not more than 500 cfu/g
	4. Clostridium perfringens	Shall not more than 1,000 cfu/g
3. Bread	1. Salmonella spp.	Shall not be detected in 25 g
	2. Staphylococcus aureus	Shall not be detected in 0.1 g
	3. Bacillus cereus	Shall not more than 100 cfu/g
	4. Clostridium perfringens	Shall not more than 100 cfu/g
4. Husked Rice Flour	1. Salmonella spp.	Shall not be detected in 25 g
	2. Staphylococcus aureus	Shall not be detected in 0.1 g
	3. Bacillus cereus	Shall not more than 1,000 cfu/g
5. Fortified Rice with Vitamins	1. Salmonella spp.	Shall not be detected in 25 g
	2. Staphylococcus aureus	Shall not be detected in 0.1 g
	3. Bacillus cereus	Shall not more than 100 cfu/g

Food product	Type of pathogen	Requirement
6. Ready-to-Eat foods		
(1) Cookie, Biscuit, Cracker, Crisp	1. Salmonella spp.	Shall not be detected in 25 g
bread	2. Staphylococcus aureus	Shall not be detected in 0.1 g
	3. Bacillus cereus	Shall not more than 1,000 cfu/g
	4. Clostridium perfringens	Shall not more than 1,000 cfu/g
(2) Ready-to-Eat foods made from	1. Salmonella spp.	Shall not be detected in 25 g
cereal or flour basis.	2. Staphylococcus aureus	Shall not be detected in 0.1 g
	3. Bacillus cereus	Shall not more than 100 cfu/g
(3) Other Ready-to-Eat foods	1. Salmonella spp.	Shall not be detected in 25 g
	2. Staphylococcus aureus	Shall not be detected in 0.1 g

<u>Remark</u>

⁽⁴⁾ For food products which are passed through any process that cannot destroy or inhibit microbial growth by thermal treatment before or after a packing step in sealed containers which are made of metal or other rigid forms materials that can prevent transmission of air into the container and can be kept at room temperature.