Minimum Requirement of Laboratory Parameters for Food Safety

(အစားအသောက်ဘေးအန္တရာယ်ကင်းရှင်းရေးအတွက် အနည်းဆုံး (မဖြစ်မနေ) ပါဝင်ရမည့် ဓာတ်ခွဲစစ်ဆေး သတ်မှတ်ချက်များ)

No.	Category	Parameters		Status
1	**Processed baby food milk powder**	Chemical	Moisture % by wt	Mandatory
			Total milk protein % by wt	Mandatory
			Milk fat % by wt	Mandatory
			Melamine	Mandatory
			Aflatoxin M1	Mandatory
			Veterinary drug residues	Optional
		Heavy Metal	Arsenic	Mandatory
			Lead	Mandatory
			Tin	Mandatory
			Cadmium	Mandatory
		Microbiological	*Escheria coli*	Mandatory
			Salmonella	Mandatory
			Staphylococcus aureus	Mandatory
			Listeria monocytogenes	Mandatory
			Bacillus cereus	Mandatory
2	**Cheese**	Chemical	Moisture (MFFB)	Mandatory
			Fat (FDM)	Mandatory
			Alflatoxin M1	Optional
		Heavy Metal	Lead	Mandatory
			Other relavant heavy metals	If applicable
		Microbiological	*Escheria coli*	Mandatory
			Salmonella	Mandatory

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No.	Category	Parameters		Status
			Staphylococcus aureus	Mandatory
			Listeria monocytogenes	Mandatory
			Bacillus cereus	Optional
3	**Processed whole milk powder**	Chemical	Moisture % by wt	Mandatory
			Milk protein in milk solid not fat % wt	Mandatory
			Milk fat % by wt	Mandatory
			Melamine	Optional
			Alflatoxin M1	Mandatory
			Veterinary drug residues	Optional
		Heavy Metal	Arsenic	Mandatory
			Lead	Mandatory
			Tin	Mandatory
			Cadmium	Mandatory
		Microbiological	*Escheria coli*	Mandatory
			Salmonella	Mandatory
			Staphylococcus aureus	Mandatory
			Listeria monocytogenes	Mandatory
			Bacillus cereus	Mandatory
4	**Liquid form milk product other than Ready–to–drink pasteurised milk**	Chemical	Milk solid not fat % by wt	Mandatory
			Milk protein in milk solid not fat % wt	Mandatory
			Milk fat % by wt	Mandatory

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No.	Category	Parameters		Status
			Alflatoxin M1	Optional
			Veterinary drug residues	Optional
		Heavy Metal	Arsenic	Mandatory
			Lead	Mandatory
			Tin	Mandatory
			Cadmium	Mandatory
		Microbiological	*Escheria coli*	Mandatory
			Salmonella	Mandatory
			Staphylococcus aureus	Mandatory
			Listeria monocytogenes	Mandatory
			Bacillus cereus	Mandatory
5	**Ready–to–drink Pasteurised milk**	Chemical	Milk protein in milk solid not fat % wt	Mandatory
			Milk fat % by wt	Mandatory
			Alflatoxin M1	Optional
			Veterinary drug residues	Optional
		Heavy Metal	Arsenic	Mandatory
			Lead	Mandatory
			Tin	Mandatory
			Cadmium	Mandatory
		Microbiological		Optional
6	**Butter, Margarine and Ghee**	Chemical	Milk fat % by wt	Mandatory

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No.	Category	Parameters		Status
			Moisture % by wt	Mandatory
			Milk solid not fat % by wt	Mandatory
		Heavy Metal	Lead	Mandatory
			Other relavant heavy metals	If applicable
		Microbiological	*Salmonella*	Mandatory
7	**Edible Vegetable Oil**	Chemical	Iodine Value	Mandatory
			Peroxide Value	Mandatory
			Acid Value	Mandatory
			Cloud Point	RBD Plam Olein depending on condition
			Anti–oxidant	If applicable
			Aflatoxin B1 (for peanut oil)	Mandatory
8	**Frozen Fruits and Vegetables (pre–packaged)**	Chemical	Pesticide residues	Optional
		Heavy Metal	Lead	Mandatory
			Other relavant heavy metals	If applicable
		Microbiological	*Escheria coli*	Mandatory
			Salmonella	Mandatory
9	**Bottled Drinking Water**	Chemical	Mineral content for natural mineral water	Mandatory
			pH	Mandatory
			Total Hardness	Mandatory
		Heavy Metal	Lead	Mandatory

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No.	Category	Parameters		Status
			Arsenic	Mandatory
			Cadmium	Mandatory
			Copper	Mandatory
			Iron	Mandatory
		Microbiological	Total Coliform	Mandatory
			Escheria coli	Mandatory
10	**Sugar**	Chemical	Sulphur Dioxide content	Mandatory
			Invert Sugar % by wt	Mandatory
			Moisture	Mandatory
		Heavy Metal	Arsenic	Mandatory
			Lead	Mandatory
			Cadmium	Mandatory
11	**Fish and Seafood Product (pre–packaged)**	Chemical	Histamine (for fishes of histadine)	Mandatory
			Veterinary drug residues	Optional
		Heavy Metal	Mercury	Mandatory
			Tin	Canned
			Other relavant heavy metals	Optional
		Microbiological	*Escheria coli*	Mandatory
			Salmonella	Mandatory
			Listeria monocytogenes	Mandatory
			Vibrio cholerae	Mandatory

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No.	Category	Parameters		Status
			Vibrio parahaemolyticus	Mandatory
			Clostridium perfringens	Canned
			Clostridium botulinum	Canned
12	**Meat Products (pre–packaged)**	Chemical	Nitrites and other preservatives	If applicable
			Veterinary drug residues	Optional
		Heavy Metal	Lead	Mandatory
			Tin	Canned
		Microbiological	*Escheria coli*	Mandatory
			Salmonella	Mandatory
			Listeria monocytogenes	Mandatory
			Clostridium perfringens	Canned
			Clostridium botulinum	Canned
13	**Nuts (pre–packaged)**	Chemical	Alflatoxin (Total or specific)	Mandatory
		Heavy Metal	Lead (not applicable for treenut)	Mandatory
			Arsenic (not applicable for treenut)	Mandatory
			Cadmium (not applicable for treenut)	Mandatory
		Microbiological	*Salmonella*	Mandatory
14	**Cereals and Pulses (pre–packaged)**	Chemical	Alflatoxin (Total or specific)	Mandatory
			Bromate (only for wheat flour)	Mandatory
			Pesticide residues	Optional
			Hydrogen Cyanide (only for pulses)	Mandatory
		Heavy Metal	Arsenic	Mandatory

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No.	Category	Parameters		Status
			Lead	Mandatory
			Cadmium	Mandatory
		Microbiological	*Salmonella*	Mandatory
			Staphylococcus aureus	Mandatory
			Bacillus cereus	Mandatory
15	**Spices, Curry Powder and Seasoning Powder**	Chemical	Moisture	Mandatory
			Added Colour	If applicable
		Heavy Metal	Arsenic	Mandatory
			Lead	Mandatory
			Other relavant heavy metals	Optional
		Microbiological	*Escheria coli*	Mandatory
			Salmonella	Mandatory
			Staphylococcus aureus	Mandatory
16	**Condiments, Pastes and Sauces**	Chemical	pH	Mandatory
			Preservatives	If applicable
		Heavy Metal	Arsenic	Mandatory
			Lead	Mandatory
			3 MCPD (only for soy sauce)	Mandatory
			Other relavant heavy metals	Optional
		Microbiological	*Escheria coli*	Mandatory
			Salmonella	Mandatory

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No.	Category	Parameters		Status
			Staphylococcus aureus	Mandatory
17	**Iodized Salt**	Chemical	Iodine Content	Mandatory
18	**Beverage (Powdered form)**	Chemical	Added Colour	If applicable
			Added Sweeteners	If applicable
			Preservatives	If applicable
			Caffeine	If applicable
			Moisture	Mandatory
		Heavy Metal	Lead	Mandatory
			Other relavant heavy metals	Optional
		Microbiological	*Salmonella*	Mandatory
			Staphylococcus aureus	Mandatory
			Escheria coli	Mandatory
19	**Beverage (Concentrate)**	Chemical	Added Colour	If applicable
			Added Sweeteners	If applicable
			Preservatives	If applicable
			Brix (Total Soluble Solid)	Mandatory
			Acidity/pH	Mandatory
		Heavy Metal	Lead	Mandatory
			Other relavant heavy metals	Optional
		Microbiological	*Salmonella*	Mandatory
			Staphylococcus aureus	Mandatory
20	**Beverage (Ready–to–drink)**	Chemical	Added Colour	If applicable

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No.	Category	Parameters		Status
			Added Sweeteners	If applicable
			Preservatives	If applicable
			Caffeine	If applicable
			Brix (Total Soluble Solid)	Mandatory
			Acidity/pH	Mandatory
		Heavy Metal	Lead	Mandatory
			Other relavant heavy metals	Optional
		Microbiological	*Salmonella*	Mandatory
			Staphylococcus aureus	Mandatory
			Yeast and Mould	Mandatory
21	**Health Supplement**	Heavy Metal	Lead	Mandatory
			Arsenic	Mandatory
			Mercury	If applicable
			Cadmium	If applicable
		Microbiological	Total Plate Count	Optional
			Yeast and Mould	Optional
			Escheria coli	Mandatory
			Salmonella	Mandatory
			Staphylococcus aureus	Mandatory
22	**Jam, Jelly, Marmalade and other preserved fruits**	Chemical	Acidity/pH	Mandatory
			Brix (Total Soluble Solid)	Mandatory

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No.	Category	Parameters		Status
			Sulphite and other preservatives	If applicable
		Heavy Metal	Lead	Mandatory
			Arsenic	Mandatory
		Microbiological	Yeast and Mould	Mandatory
			Escheria coli	Mandatory
			Salmonella	Mandatory
			Staphylococcus aureus	Mandatory
23	**Bakery products and confectionary**	Chemical	Moisture % by wt	Mandatory
			Preservatives	If applicable
		Heavy Metal	Lead	Mandatory
			Arsenic	Mandatory
		Microbiological	*Salmonella*	Mandatory
			Staphylococcus aureus	Mandatory
			Bacillus cereus (only for cereal based products)	Mandatory
24	**Frozen desserts**	Chemical	Preservatives	If applicable
		Heavy Metal	Lead	Mandatory
			Other relavant heavy metals	If applicable
		Microbiological	*Salmonella*	Mandatory
			Staphylococcus aureus	Mandatory
			Bacillus cereus	Mandatory
			Listeria monocytogenes	Mandatory

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No.	Category	Parameters		Status
25	**Coffee and Tea including herbal tea (Dried form)**	Chemical	Moisture % by wt	Mandatory
		Heavy Metal	Lead	Mandatory
			Other relavant heavy metals	If applicable
		Microbiological	*Salmonella*	Mandatory
			Staphylococcus aureus	Mandatory
			Escheria coli	Mandatory
26	**Coffee and Tea (Ready–to–drink)**	Chemical	Brix (Total Soluble Solid)	If applicable
		Heavy Metal	Lead	Mandatory
			Other relavant heavy metals	If applicable
		Microbiological		Optional
27	**Fermented Milk**	Chemical	Acidity/pH	Mandatory
			Brix (Total Soluble Solid)	Mandatory
			Milk fat % by wt	Mandatory
		Heavy Metal	Lead	Mandatory
			Other relavant heavy metals	If applicable
		Microbiological	*Escheria coli*	Mandatory
			Staphylococcus aureus	Mandatory
			Salmonella	Mandatory
			Listeria monocytogenes	Mandatory
28	**Alcoholic beverage (Wine)**	Chemical	Alcohol % by vol	Mandatory
			Sulphite or SO2	Mandatory

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No.	Category	Parameters		Status
			pH	Mandatory
		Heavy Metal	Lead	Optional
			Other relavant heavy metals	Optional
29	**Instant noodle/vermicelli**	Chemical	Moisture % by wt	Mandatory
			Preservatives	If applicable
		Heavy Metal	Lead	Mandatory
			Arsenic	Mandatory
		Microbiological	*Salmonella*	Mandatory
			Staphylococcus aureus	Mandatory
			Bacillus cereus	Mandatory
30	**Food additives**	Chemical	Assay % for purity / identification	Mandatory
31	**RTE snacks**	Chemical	Moisture	Mandatory
			Preservatives	If applicable
		Heavy Metal	Lead	Mandatory
			Other relavant heavy metals	If applicable
		Microbiological	*Salmonella*	Mandatory
			Staphylococcus aureus	Mandatory
			Bacillus cereus (only for cereal based products)	Mandatory
32	**Processing aids**	Chemical	Assay % for purity / identification	Mandatory
33	**Yeast**	Heavy Metal	Lead	Mandatory
			Other relavant heavy metals	If applicable

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No.	Category	Parameters		Status
		Microbiological	*Escheria coli*	Mandatory
			Salmonella	Mandatory
			Staphylococcus aureus	Mandatory
34	**Food Supplement (other than infant formula)**	Chemical	Preservatives	Mandatory
		Heavy Metal	Lead	Mandatory
			Arsenic	Mandatory
			Mercury	If applicable
			Cadmium	If applicable
		Microbiological	Total Plate Count	Optional
			Yeast and Mould	Optional
			Escheria coli	Mandatory
			Salmonella	Mandatory
			Staphylococcus aureus	Mandatory
35	**Ready–to–eat products**	Chemical	Preservatives	Mandatory
		Heavy Metal	Lead	Mandatory
			Other relavant heavy metals	If applicable
		Microbiological	*Escheria coli*	Mandatory
			Salmonella	Mandatory
			Staphylococcus aureus	Mandatory
36	**Ready–to–cook products**	Chemical	Preservatives	Mandatory
		Heavy Metal	Lead	Mandatory

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No.	Category	Parameters		Status
			Other relavant heavy metals	If applicable
		Microbiological	*Escheria coli*	Mandatory
			Salmonella	Mandatory
			Staphylococcus aureus	Mandatory

* The limits for chemical parameters need to be comply with relevant standards and/or Codex General Standards for Food Additives.