

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
			Lead	Mandatory
			Tin	Mandatory
			Cadmium	Mandatory
		Microbiological	<i>Escheria coli</i>	Mandatory
			<i>Salmonella</i>	Mandatory
			<i>Staphylococcus aureus</i>	Mandatory
			<i>Listeria monocytogenes</i>	Mandatory
			<i>Bacillus cereus</i>	Mandatory
2	Cheese	Chemical	Moisture (MFFB)	Mandatory
			Fat (FDM)	Mandatory
			Aflatoxin M1	Optional
		Heavy Metal	Lead	Mandatory
			Other relavant heavy metals	If applicable
		Microbiological	<i>Escheria coli</i>	Mandatory
			<i>Salmonella</i>	Mandatory

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No.	Category	Parameters		Status
			<i>Staphylococcus aureus</i>	Mandatory
			<i>Listeria monocytogenes</i>	Mandatory
			<i>Bacillus cereus</i>	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	<i>Escheria coli</i>	Mandatory
			<i>Salmonella</i>	Mandatory
			<i>Staphylococcus aureus</i>	Mandatory
			<i>Listeria monocytogenes</i>	Mandatory
			<i>Bacillus cereus</i>	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	<i>Escheria coli</i>	Mandatory
			<i>Salmonella</i>	Mandatory
			<i>Staphylococcus aureus</i>	Mandatory
			<i>Listeria monocytogenes</i>	Mandatory
			<i>Bacillus cereus</i>	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 relevant heavy metals	If applicable
		Microbiological	<i>Salmonella</i>	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 relevant heavy metals	If applicable
		Microbiological	<i>Escheria coli</i>	Mandatory
			<i>Salmonella</i>	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
			<i>Escheria coli</i>	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	<i>Escheria coli</i>	Mandatory
			<i>Salmonella</i>	Mandatory
			<i>Listeria monocytogenes</i>	Mandatory
			<i>Vibrio cholerae</i>	Mandatory

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No.	Category	Parameters		Status
			<i>Vibrio parahaemolyticus</i>	Mandatory
			<i>Clostridium perfringens</i>	Canned
			<i>Clostridium botulinum</i>	Canned
12	Meat Products (pre-packaged)	Chemical	Nitrites and other preservatives	If applicable
			Veterinary drug residues	Optional
		Heavy Metal	Lead	Mandatory
			Tin	Canned
		Microbiological	<i>Escheria coli</i>	Mandatory
			<i>Salmonella</i>	Mandatory
			<i>Listeria monocytogenes</i>	Mandatory
			<i>Clostridium perfringens</i>	Canned
			<i>Clostridium botulinum</i>	Canned
13	Nuts (pre-packaged)	Chemical	Aflatoxin (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	<i>Salmonella</i>	Mandatory
14	Cereals and Pulses (pre-packaged)	Chemical	Aflatoxin (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	<i>Salmonella</i>	Mandatory
			<i>Staphylococcus aureus</i>	Mandatory
			<i>Bacillus cereus</i>	Mandatory
15	Spices, Curry Powder and Seasoning Powder	Chemical	Moisture	Mandatory
			Added Colour	If applicable
		Heavy Metal	Arsenic	Mandatory
			Lead	Mandatory
			Other relevant heavy metals	Optional
		Microbiological	<i>Escheria coli</i>	Mandatory
			<i>Salmonella</i>	Mandatory
			<i>Staphylococcus aureus</i>	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 relevant heavy metals	Optional
		Microbiological	<i>Escheria coli</i>	Mandatory
			<i>Salmonella</i>	Mandatory

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No.	Category	Parameters		Status
			<i>Staphylococcus aureus</i>	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 relevant heavy metals	Optional
		Microbiological	<i>Salmonella</i>	Mandatory
			<i>Staphylococcus aureus</i>	Mandatory
			<i>Escheria coli</i>	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 relevant heavy metals	Optional
		Microbiological	<i>Salmonella</i>	Mandatory
			<i>Staphylococcus aureus</i>	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 relevant heavy metals	Optional
		Microbiological	<i>Salmonella</i>	Mandatory
			<i>Staphylococcus aureus</i>	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
			<i>Escheria coli</i>	Mandatory
			<i>Salmonella</i>	Mandatory
			<i>Staphylococcus aureus</i>	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
			<i>Escheria coli</i>	Mandatory
			<i>Salmonella</i>	Mandatory
			<i>Staphylococcus aureus</i>	Mandatory
23	Bakery products and confectionary	Chemical	Moisture % by wt	Mandatory
			Preservatives	If applicable
		Heavy Metal	Lead	Mandatory
			Arsenic	Mandatory
		Microbiological	<i>Salmonella</i>	Mandatory
			<i>Staphylococcus aureus</i>	Mandatory
			<i>Bacillus cereus</i> (only for cereal based products)	Mandatory
24	Frozen desserts	Chemical	Preservatives	If applicable
		Heavy Metal	Lead	Mandatory
			Other relavant heavy metals	If applicable
		Microbiological	<i>Salmonella</i>	Mandatory
			<i>Staphylococcus aureus</i>	Mandatory
			<i>Bacillus cereus</i>	Mandatory
			<i>Listeria monocytogenes</i>	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 relevant heavy metals	If applicable
		Microbiological	<i>Salmonella</i>	Mandatory
			<i>Staphylococcus aureus</i>	Mandatory
			<i>Escheria coli</i>	Mandatory
26	Coffee and Tea (Ready-to-drink)	Chemical	Brix (Total Soluble Solid)	If applicable
		Heavy Metal	Lead	Mandatory
			Other relevant 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 relevant heavy metals	If applicable
		Microbiological	<i>Escheria coli</i>	Mandatory
			<i>Staphylococcus aureus</i>	Mandatory
			<i>Salmonella</i>	Mandatory
			<i>Listeria monocytogenes</i>	Mandatory
28	Alcoholic beverage (Wine)	Chemical	Alcohol % by vol	Mandatory
			Sulphite or SO ₂	Mandatory

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

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No.	Category	Parameters		Status
		Microbiological	<i>Escheria coli</i>	Mandatory
			<i>Salmonella</i>	Mandatory
			<i>Staphylococcus aureus</i>	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
			<i>Escheria coli</i>	Mandatory
			<i>Salmonella</i>	Mandatory
			<i>Staphylococcus aureus</i>	Mandatory
35	Ready-to-eat products	Chemical	Preservatives	Mandatory
		Heavy Metal	Lead	Mandatory
			Other relavant heavy metals	If applicable
		Microbiological	<i>Escheria coli</i>	Mandatory
			<i>Salmonella</i>	Mandatory
			<i>Staphylococcus aureus</i>	Mandatory
36	Ready-to-cook products	Chemical	Preservatives	Mandatory
		Heavy Metal	Lead	Mandatory

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No.	Category	Parameters		Status
			Other relevant heavy metals	If applicable
		Microbiological	<i>Escheria coli</i>	Mandatory
			<i>Salmonella</i>	Mandatory
			<i>Staphylococcus aureus</i>	Mandatory