

No	Testing	Type of Sample	Sample Amount	Method	Lead Time
Formulation Analysis					
1	SPF (Full Test)	Cosmetics	30 g/ml	ISO 24443	7 days
2	SPF (Single Plate)		30 g/ml	ISO 24443	7 days
3	SPF Water Resistance (40 minutes)		30 g/ml	In-house method ISO 16217/ISO 24443	7 days
4	SPF Very Water Resistance (80 minutes)		30 g/ml	In-house method ISO 16217/ISO 24443	7 days
Physical Analysis					
5	Moisture (Hot Air Oven)	Cosmetics / Foods / Beverages	100 g/ml	AOAC , USP 42	5 days
6	Viscosity	Cosmetics / Beverages	500 g/ml	USP 42	5 days
7	Specific Gravity / Density	Cosmetics / Beverages	50 g/ml	USP 42	5 days
8	Refractive Index	Cosmetics / Beverages	50 g/ml	USP 42	5 days
9	Appearance	Cosmetics / Beverages	100 g/ml	-	5 days
10	Color	Cosmetics / Beverages	100 g/ml	-	5 days
11	Odor	Cosmetics / Beverages	100 g/ml	-	5 days
12	Test Kit (Hydroquinone, Retinoic acid, Steroid)	Cosmetics	30 g/ml	-	5 days
Chemical Analysis					
13	pH	Cosmetics / Foods / Water / Beverages	100 g/ml	USP 42	5 days
14	Acid Value	Cosmetics / Foods / Water	100 g/ml	AOCS 2017 <Cd 3d-63>	5 days
15	Saponification Value	Cosmetics / Foods / Water	100 g/ml	USP 42	5 days
16	Peroxide Value	Foods	500 g	In house method AOAC	5 days
		Oil	100 g/ml		
17	Moisture Content	Cosmetics / Foods / Beverages	100 g/ml	Moisture Analyzer	5 days
18	Protein	Foods / Beverages	100 g/ml	In house method AOAC	5 days
19	Conductivity	Water	100 ml	USP 42	5 days
20	Solubility	Cosmetics / Foods	100 g/ml	USP 42	5 days
21	Solubility in Toluene	Cosmetics / Foods	100 g/ml	USP 42	5 days
22	Bulk Density	Cosmetics / Foods	100 g/ml	USP 42	5 days

No	Testing	Type of Sample	Sample Amount	Method	Lead Time
Chemical Analysis					
23	Tapped Density	Cosmetics / Foods	100 g/ml	USP 42	5 days
24	Melting Point and Range	Cosmetics / Foods	100 g/ml	USP	5 days
25	Iodine Value	Cosmetics / Foods	100 g/ml	USP	5 days
26	Optical Rotation	Cosmetics	100 g/ml	USP	5 days
27	Water Activity (aw)	Foods	100 g/ml	In house method AOAC	5 days
28	Microscope Phase	Cosmetics / Foods / Water	100 g/ml	Microscope	7 days
29	Microscope Polarized	Cosmetics / Foods / Water	100 g/ml	Microscope	7 days
30	Ash	Foods / Beverages	100 g/ml	AOAC	5 days
31	Bromelain	Foods	100 g/ml	USP 42	7 days
Heavy Metals & Minerals					
32	Aluminum (Al)	Cosmetics / Foods / Water / Beverages	100 g/ml	In-house method AOAC, In-house method ACM 005 (ICP-OES)	7 days
33	Arsenic (As)		100 g/ml	In-house method AOAC, In-house method ACM 005 (ICP-OES)	7 days
34	Barium (Ba)		100 g/ml	In-house method AOAC, In-house method ACM 005 (ICP-OES)	7 days
35	Cadmium (Cd)		100 g/ml	In-house method AOAC, In-house method ACM 005 (ICP-OES)	7 days
36	Calcium (Ca)		100 g/ml	In-house method AOAC, In-house method ACM 005 (ICP-OES)	7 days
37	Chromium (Cr)		100 g/ml	In-house method AOAC, In-house method ACM 005 (ICP-OES)	7 days

No	Testing	Type of Sample	Sample Amount	Method	Lead Time
Heavy Metals & Minerals					
38	Cobalt (Co)	Cosmetics / Foods / Water / Beverages	100 g/ml	In-house method AOAC, In-house method ACM 005 (ICP-OES)	7 days
39	Copper (Cu)		100 g/ml	In-house method AOAC, In-house method ACM 005 (ICP-OES)	7 days
40	Iron (Fe)		100 g/ml	In-house method AOAC, In-house method ACM 005 (ICP-OES)	7 days
41	Lithium (Li)		100 g/ml	In-house method AOAC, In-house method ACM 005 (ICP-OES)	7 days
42	Lead (Pb)		100 g/ml	In-house method AOAC, In-house method ACM 005 (ICP-OES)	7 days
43	Magnesium (Mg)		100 g/ml	In-house method AOAC, In-house method ACM 005 (ICP-OES)	7 days
44	Manganese (Mn)		100 g/ml	In-house method AOAC, In-house method ACM 005 (ICP-OES)	7 days
45	Mercury (Hg)		100 g/ml	In-house method AOAC, In-house method ACM 005 (ICP-OES)	7 days
46	Nickel (Ni)		100 g/ml	In-house method AOAC, In-house method ACM 005 (ICP-OES)	7 days
47	Potassium (K)		100 g/ml	In-house method AOAC, In-house method ACM 005 (ICP-OES)	7 days

No	Testing	Type of Sample	Sample Amount	Method	Lead Time
Heavy Metals & Minerals					
48	Selenium (Se)	Cosmetics / Foods / Water / Beverages	100 g/ml	In-house method AOAC, In-house method ACM 005 (ICP-OES)	7 days
49	Silver (Ag)		100 g/ml	In-house method AOAC, In-house method ACM 005 (ICP-OES)	7 days
50	Sodium (Na)		100 g/ml	In-house method AOAC, In-house method ACM 005 (ICP-OES)	7 days
51	Thallium (Tl)		100 g/ml	In-house method AOAC, In-house method ACM 005 (ICP-OES)	7 days
52	Tin (Sn)		100 g/ml	In-house method AOAC, In-house method ACM 005 (ICP-OES)	7 days
53	Zinc (Zn)		100 g/ml	In-house method AOAC, In-house method ACM 005 (ICP-OES)	7 days
54	Heavy Metals contamination in Drinking H2O		Water	1,000 ml	In-house method AWWA (ICP-OES)
Chromatography					
55	Aspartic acid	Cosmetics / Foods / Water / Beverages	100 g/ml	HPLC	7 days
56	Glutamic acid		100 g/ml	HPLC	7 days
57	Asparagine		100 g/ml	HPLC	7 days
58	Serine		100 g/ml	HPLC	7 days
59	Glutamine		100 g/ml	HPLC	7 days
60	Histidine		100 g/ml	HPLC	7 days
61	Glycine		100 g/ml	HPLC	7 days
62	Threonine		100 g/ml	HPLC	7 days
63	Arginine		100 g/ml	HPLC	7 days

No	Testing	Type of Sample	Sample Amount	Method	Lead Time
Chromatography					
64	Alanine	Cosmetics / Foods / Water / Beverages	100 g/ml	HPLC	7 days
65	Tyrosine		100 g/ml	HPLC	7 days
66	Cysteine		100 g/ml	HPLC	7 days
67	Valine		100 g/ml	HPLC	7 days
68	Methionine		100 g/ml	HPLC	7 days
69	Norvaline		100 g/ml	HPLC	7 days
70	Tryptophan		100 g/ml	HPLC	7 days
71	Phenylalanine		100 g/ml	HPLC	7 days
72	Isoleucine		100 g/ml	HPLC	7 days
73	Leucine		100 g/ml	HPLC	7 days
74	Lysine		100 g/ml	HPLC	7 days
75	Hydroxyproline		100 g/ml	HPLC	7 days
76	Sarcosine		100 g/ml	HPLC	7 days
77	Proline		100 g/ml	HPLC	7 days
78	Andrographolide	Foods	100 g/ml	HPLC	7 days
79	Ascorbic Acid (Vitamin C)	Foods / Beverages	100 g/ml	HPLC	7 days
80	Oxidized Glutathione (GSSG)	Foods / Beverages	100 g/ml	HPLC	7 days
81	Reduced Glutathione (GSH)	Foods / Beverages	100 g/ml	HPLC	7 days
82	Caffeine Content	Foods / Beverages	100 g/ml	AOAC (2023) 980.14	7 days
83	Ergothioneine	Foods / Beverages	100 g/ml	HPLC	7 days
84	Identification Perfumes	Cosmetics	100 g/ml	GC	7 days
85	Identification Flavors	Cosmetics / Foods	100 g/ml	GC	7 days
86	Avobenzone	Cosmetics	100 g/ml	GC	7 days
87	Octyl Methoxycinnamate (OMC)	Cosmetics	100 g/ml	GC	7 days
88	Qualitative Alcohols in Foods	Foods / Beverages	100 g/ml	GC	7 days

No	Testing	Type of Sample	Sample Amount	Method	Lead Time
Chromatography					
89	Qualitative Alcohols in Cosmetics	Cosmetics	100 g/ml	GC	7 days
90	Free Fatty Acid	Foods / Oil	300 g/ml	AOCS 2017 <Ca 5a-40>	5 days
91	Fatty Acid	Foods / Beverages	300 g	In house method AOAC	7 days
		Oil	100 g/ml		
Nutrition Analysis					
92	Cholesterol	Foods / Beverages	300 g/ml	In-house method based on AOAC	10 days
93	Dietary Fiber		300 g/ 1,000ml	In-house method based on AOAC	10 days
94	Saturated fats in FPs		300 g/ml	In-house method based on AOAC	7 days
95	Total Fat		300 g/ml	In-house method based on AOAC	7 days
96	Vitamin A (Retinol)		300 g/ml	In-house method based on AOAC	10 days
97	Vitamin B1 (Thiamine)		300 g/ml	In-house method based on AOAC	7 days
98	Vitamin B2 (Riboflavin)		300 g/ml	In-house method based on AOAC	7 days
99	Total Sugar		300 g/ml	In-house method based on AOAC	7 days
100	Fructose		300 g/ml	In-house method based on AOAC	7 days
101	Glucose		300 g/ml	In-house method based on AOAC	7 days
102	Lactose		300 g/ml	In-house method based on AOAC	7 days
103	Maltose		300 g/ml	In-house method based on AOAC	7 days
104	Sucrose		300 g/ml	In-house method based on AOAC	7 days
105	Calories from Fat		300 g/ml	Methods of Analysis for Nutrition Labeling 1993,Chapter 1,5	7 days
106	Energy (Kcal)		300 g/ml	Methods of Analysis for Nutrition Labeling 1993,Chapter 1,5	7 days
107	Total Carbohydrate		300 g/ml	Methods of Analysis for Nutrition Labeling 1993,Chapter 1,5	7 days

No	Testing	Type of Sample	Sample Amount	Method	Lead Time
Notification of Ministry of Public Health Regulation					
108	Nutrition Labels (Ref. MOPH. No.445)	Foods / Beverages	1,000 g/ml	Calculate	7 days
109	Water Packages (Ref. MOPH. No.61&135)	Water	5,000 ml	Calculate	10 days
Microbiological Analysis					
110	Total Aerobic Plate Count (TPC)	Cosmetics	50 g/ml	USP-NF:2024 <Chapter 61>, ISO 21149:2017 and ISO 16212:2017	7 days
111	Total Aerobic Microbial Count (TAMC)		50 g/ml	USP-NF:2024 <Chapter 61>	5 days
112	Total Aerobic Mesophilic bacteria Count (TAMC)		50 g/ml	ISO 21149:2017	5 days
113	Total combined Yeasts & Molds Count (TYMC)		50 g/ml	USP-NF:2024 <Chapter 61>	7 days
114	Total Yeast and Mold Count (TYMC)		50 g/ml	ISO 16212:2017	7 days
115	Antimicrobial Effectiveness Testing (Challenge Test) • <i>Staphylococcus aureus</i> • <i>Pseudomonas aeruginosa</i> • <i>Candida albicans</i> • <i>Escherichia coli</i> • <i>Aspergillus brasiliensis</i>		300 g/ml	USP-NF:2024 <Chapter 51>, ISO 11930:2019	45-50 days
116	<i>Candida albicans</i> (D/ND)		50 g/ml	USP-NF:2024 <Chapter 62>, ISO 18416:2015	10 days
117	<i>Clostridium</i> spp. (D/ND)		50 g/ml	USP-NF:2024 <Chapter 62>, ISO 21150:2015	10 days
118	<i>Escherichia coli</i> (D/ND)		50 g/ml	USP-NF:2024 <Chapter 62>, ISO 22718:2015	10 days
119	<i>Salmonella</i> spp. (D/ND)		50 g/ml	USP-NF:2024 <Chapter 62>, ISO 22717:2015	10 days
120	<i>Staphylococcus aureus</i> (D/ND)		50 g/ml	USP-NF:2024 <Chapter 62>, ISO 22717:2015	10 days
121	<i>Pseudomonas aeruginosa</i> (D/ND)	50 g/ml	USP-NF:2024 <Chapter 62>, ISO 22717:2015	10 days	

No	Testing	Type of Sample	Sample Amount	Method	Lead Time
Microbiological Analysis					
122	Aerobic Plate Count (APC)	Foods	300 g/ml	FDA BAM <i>Online</i> , 2001 (Chapter 3)	7 days
123	Total Yeasts and Molds (TYMC)		300 g/ml	FDA BAM <i>Online</i> , 2001 (Chapter 18)	7 days
124	Antimicrobial Effectiveness Testing (Challenge Test) • <i>Staphylococcus aureus</i> • <i>Pseudomonas aeruginosa</i> • <i>Candida albicans</i> • <i>Escherichia coli</i> • <i>Aspergillus brasiliensis</i>		300 g/ml	USP-NF:2024 <Chapter 62>, ISO 11930:2019	45-50 days
125	<i>Bacillus cereus</i> (cfu)		300 g/ml	FDA BAM <i>Online</i> , 2001 (Chapter 18)	10 days
126	<i>Clostridium perfringens</i> (cfu)		300 g/ml	FDA BAM <i>Online</i> , 2001 (Chapter 16)	10 days
127	<i>Clostridium perfringens</i> (D/ND in 0.1 g)		300 g/ml	FDA BAM <i>Online</i> , 2001 (Chapter 16)	10 days
128	Coliforms (MPN)		300 g/ml	FDA BAM <i>Online</i> , 2020 (Chapter 4)	10 days
129	Coliforms (Petrifilm)		300 g/ml	AOAC (2019) 991.14	10 days
130	<i>Escherichia coli</i> (MPN)		300 g/ml	FDA BAM <i>Online</i> , 2020 (Chapter 4)	10 days
131	<i>Escherichia coli</i> (D/ND)		300 g/ml	FDA BAM <i>Online</i> , 2020 (Chapter 4)	10 days
132	<i>Escherichia coli</i> (Petrifilm)		300 g/ml	AOAC (2019) 991.14	10 days
133	<i>Salmonella</i> spp. (D/ND in 25 g,ml)		300 g/ml	ISO 6579 (2017)/Amd.1 (2020)	10 days
134	<i>Staphylococcus aureus</i> (cfu)		300 g/ml	FDA BAM <i>Online</i> , 2016 (Chapter 12)	10 days
135	<i>Staphylococcus aureus</i> (D/ND in 0.1 g)		300 g/ml	FDA BAM <i>Online</i> , 2016 (Chapter 12)	10 days
136	Aerobic Plate Count (APC)		Water	500 ml	FDA BAM <i>Online</i> , 2001 (Chapter 3)
137	<i>Escherichia coli</i> (MPN/100ml), (D/ND in100ml)	500 ml		APHA,AWWA,WEF,24 th Part 9221F,B.	7 days
138	Coliform (MPN/100ml)	500 ml		APHA,AWWA,WEF,24 th Part 9221B	7 days
139	<i>Staphylococcus aureus</i> (cfu/100ml)	500 ml		APHA,AWWA,WEF,24 th Part 9213B	7 days
140	<i>Salmonella</i> spp. (D/ND per 100ml)	500 ml		ISO 19250:2010	7 days

No	Testing	Type of Sample	Sample Amount	Method	Lead Time
Microbiological Analysis					
141	<i>Escherichia coli</i> (MPN)	Food Supplements	300 g/ml	FDA BAM <i>Online</i> , 2020 (Chapter 4)	10 days
142	<i>Staphylococcus aureus</i> (D/ND in 0.1 g)		300 g/ml	FDA BAM <i>Online</i> , 2016 (Chapter 12)	10 days
143	<i>Clostridium</i> spp. (D/ND in 0.1 g)		300 g/ml	USP-NF:2024 <Chapter 62>	10 days
144	<i>Salmonella</i> spp. (D/ND in 25 g,ml)		300 g/ml	ISO 6579 (2017)/Amd.1 (2020)	10 days
145	Total Aerobic Microbial Count (TAMC)	Herbal Products	50 g/ml	THP (2021)	7 days
146	Total combined Yeasts & Molds Count (TYMC)		50 g/ml	THP (2021)	7 days
147	<i>Clostridium</i> spp. (D/ND in 1g,10g)		50 g/ml	THP (2021)	10 days
148	<i>Escherichia coli</i> (D/ND in 1g,10g)		50 g/ml	THP (2021)	10 days
149	<i>Salmonella</i> spp. (D/ND in 10g,25g)		50 g/ml	THP (2021)	10 days
150	<i>Staphylococcus aureus</i> (D/ND in 1g)		50 g/ml	THP (2021)	10 days
151	<i>Pseudomonas aeruginosa</i> (D/ND in 1g)		50 g/ml	THP (2021)	10 days
152	Bile-Tolerant Gram Negative Bacteria (CFU ,D/ND)		50 g/ml	THP (2021)	10 days
Disk Diffusion Test					
153	<i>Staphylococcus aureus</i>	Cosmetics / Household Products	30 g/ml	Eucast <i>Online</i> , 2024	10 days
154	<i>Pseudomonas aeruginosa</i>		30 g/ml		10 days
155	<i>Candida albicans</i>		30 g/ml		10 days
156	<i>Escherichia coli</i>		30 g/ml		10 days
158	Aerobic bacteria	Cosmetics / Household Products / Foods / Other	30 g/ml	Etc.	10 days
159	Anaerobic bacteria	Cosmetics	30 g/ml	Eucast <i>Online</i> , 2024	10 days
160	<i>Cutibacterium acnes</i>	* Matrix of the sample (Liquid / Semi-Solid) *	30 g/ml	Eucast <i>Online</i> , 2024	10 days
Minimum Inhibitory Concentration (MIC)					
161	<i>Cutibacterium acnes</i>	Cosmetics	30 g/ml	CLSI	10 days
162	Aerobic bacteria	* Matrix of the sample (Liquid)	30 g/ml	CLSI	10 days

การเก็บรักษาตัวอย่าง (Storage Condition)

เคมี (Chemistry) : อุณหภูมิห้อง (Room Temperature) 25 ± 5 °C, แช่เย็น (Refrigerated) 4 ± 3 °C, แช่แข็ง (Frozen) -20 ± 3 °C
จุลชีววิทยา (Microbiology) : อุณหภูมิห้อง (Room Temperature) 25 ± 5 °C, แช่เย็น (Refrigerated) 4 ± 3 °C, แช่แข็ง (Frozen) -20 ± 3 °C

The laboratory of Krisada Laboratories Co., Ltd. Has been accepted as an accredited laboratory in the field of food and cosmetic testing for the following scopes.

No	Testing	Type of Sample	Sample Amount	Method	Lead Time
1	Arsenic (As) *	<ul style="list-style-type: none"> • Food Supplement <ul style="list-style-type: none"> - Collagen • Non-carbonated water-based 	100 g/ml	In-house method TC7.2-13 based on AOAC (2023) 986.15	7 days
2	Mercury (Hg) *		100 g/ml		7 days
3	Lead (Pb) *		100 g/ml	In-house method TC7.2-13 based on AOAC (2023) 999.10	7 days
4	Cadmium (Cd) *		100 g/ml		7 days
5	Arsenic (As) *	Cosmetics <ul style="list-style-type: none"> • Make-up products <ul style="list-style-type: none"> - Lipstick • Moisturizer products <ul style="list-style-type: none"> - Cream - Lotion 	100 g/ml	In-house method TC7.2-12 based on ACM 005 determination of heavy metals, 2013.	7 days
6	Mercury (Hg) *		100 g/ml		7 days
7	Lead (Pb) *		100 g/ml		7 days
8	Cadmium (Cd) *		100 g/ml		7 days
9	Moisture *	Flour	100 g/ml	AOAC (2023) 925.10	5 days
10	Total nitrogen *	<ul style="list-style-type: none"> • Flour • Cereal and cereal products 	100 g/ml	In-house method TC7.2-19 based on AOAC (2023) 992.15	5 days
11	Ash *		100 g/ml		
			100 g/ml	AOAC (2023) 945.38 (C)	
12	Ascorbic Acid (Vitamin C) *	<ul style="list-style-type: none"> • Beverage in Sealed Container • Water with dissolve carbon dioxide or oxygen gas 	100 g/ml	In-house method TC7.2-15 based on International Fruit and Vegetable Juice Association (IFU), No. 17a, 1995.	7 days
13	Ethanol *		100 g/ml		

No	Testing	Type of Sample	Sample Amount	Method	Lead Time	
14	Aluminum (Al) *	<ul style="list-style-type: none"> • Potable water <ul style="list-style-type: none"> - Drinking water - Drinking water in sealed container - Supply water - Process water • Non-potable water <ul style="list-style-type: none"> - Supply water - Distilled water - DI water - RO water - Soft water • Ice 	1000 ml	In-house method TC7.2-16 base on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 3120 B.	7 days	
15	Arsenic (As) *				7 days	
16	Barium (Ba) *				7 days	
17	Cadmium (Cd) *				7 days	
18	Chromium (Cr) *				7 days	
19	Copper (Cu) *				7 days	
20	Iron (Fe) *				7 days	
21	Lead (Pb) *				7 days	
22	Manganese (Mn) *				7 days	
23	Selenium (Se) *				7 days	
24	Silver (Ag) *				7 days	
25	Zinc (Zn) *				7 days	
26	Mercury (Hg) *				In-house method TC7.2-16 base on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 3112 B.	7 days

No	Testing	Type of Sample	Sample Amount	Method	Lead Time
27	Total Aerobic Microbial Count (CFU) *	Cosmetics • Cleansing products - Shampoo - Soap • Moisturizer products - Cream - Lotion - Liquid - Balm	50 g/ml	USP – NF:2024 <Chapter 61>	5 days
28	Total Combined Yeasts and Molds Count (CFU) *		50 g/ml		7 days
29	<i>Escherichia coli</i> * (Detected or Not Detected)		50 g/ml	USP – NF:2024 <Chapter 62>	10 days
30	<i>Staphylococcus aureus</i> * (Detected or Not Detected)		50 g/ml		10 days
31	<i>Pseudomonas aeruginosa</i> * (Detected or Not Detected)		50 g/ml		10 days
32	<i>Candida albicans</i> * (Detected or Not Detected)		50 g/ml		10 days
33	<i>Clostridium spp.</i> * (Detected or Not Detected)		50 g/ml		10 days
34	Antimicrobial Effectiveness Testing (Challenge Test) * : • <i>Staphylococcus aureus</i> (CFU) • <i>Pseudomonas aeruginosa</i> (CFU) • <i>Candida albicans</i> (CFU) • <i>Escherichia coli</i> (CFU) • <i>Aspergillus brasiliensis</i> (CFU)		300 g/ml	USP – NF:2024 <Chapter 51>	45–50 days

No	Testing	Type of Sample	Sample Amount	Method	Lead Time
35	Total Aerobic Mesophilic bacteria Count (CFU) *	Cosmetics • Cleansing products - Shampoo - Soap • Moisturizer products - Cream - Lotion - Liquid	50 g/ml	ISO 21149:2017	5 days
36	Total Yeasts and Molds Count (CFU) *		50 g/ml	ISO 16212:2017	7 days
37	<i>Escherichia coli</i> * (Detected or Not Detected)		50 g/ml	ISO 21150:2015	10 days
38	<i>Staphylococcus aureus</i> * (Detected or Not Detected)		50 g/ml	ISO 22718:2015	10 days
39	<i>Pseudomonas aeruginosa</i> * (Detected or Not Detected)		50 g/ml	ISO 22717:2015	10 days
40	<i>Candida albicans</i> * (Detected or Not Detected)		50 g/ml	ISO 18416:2015	10 days
41	Antimicrobial Effectiveness Testing (Challenge Test) * : • <i>Staphylococcus aureus</i> (CFU) • <i>Pseudomonas aeruginosa</i> (CFU) • <i>Candida albicans</i> (CFU) • <i>Escherichia coli</i> (CFU) • <i>Aspergillus brasiliensis</i> (CFU)		300 g/ml	ISO 11930:2019	45-50 days

No	Testing	Type of Sample	Sample Amount	Method	Lead Time
42	<i>Bacillus cereus</i> (CFU) *	• Complementary food for infant & young children	300 g/ml	FDA BAM <i>Online</i> , 2020 (Chapter 14)	10 days
43	<i>Escherichia coli</i> (MPN) *	• Ice cream • Some particular kinds of sauces • Sauces in sealed containers	300 g/ml	FDA BAM <i>Online</i> , 2020 (Chapter 4)	10 days
44	Coliforms (CFU) *	• Fish sauce • Poultry and poultry products (Fresh Chilled Frozen Processed)	300 g/ml	AOAC (2023) 991.14	10 days
45	<i>Escherichia coli</i> (CFU) *	• Vegetables and vegetable products (Fresh Chilled Processed)	300 g/ml		10 days
46	<i>Clostridium perfringens</i> (CFU) *	• Fruits and fruit products (Fresh Chilled Processed)	300 g/ml	FDA BAM <i>Online</i> , 2001 (Chapter 16)	10 days
47	<i>Staphylococcus aureus</i> * (CFU/Detected or not detected)	• Flour and flour products • Spice	300 g/ml	FDA BAM <i>Online</i> , 2001 (Chapter 12)	10 days
48	Total Yeasts and Molds (CFU) *	• Food Supplement - Powder • Ready-to-Eat Foods	300 g/ml	FDA BAM <i>Online</i> , 2001 (Chapter 18)	7 days
49	Aerobic Plate Count (CFU) *	• Semi process food	300 g/ml	FDA BAM <i>Online</i> , 2001 (Chapter 3)	7 days
50	<i>Salmonella</i> spp. * (Detected or not detected)		300 g/ml	ISO 6579-1:2017/Amd. 1:2020	10 days

No	Testing	Type of Sample	Sample Amount	Method	Lead Time
51	<i>Staphylococcus aureus</i> * (CFU/Detected or not detected)	<ul style="list-style-type: none"> • Potable water <ul style="list-style-type: none"> - Drinking water - Drinkinh water in sealed container - Supply water - Process water - Filtered water • Non - Potable water <ul style="list-style-type: none"> - Supply water • Ice 	500 ml	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023. Part 9213 B.	10 days
52	Coliforms (MPN) *		500 ml	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023. Part 9221 B.	10 days
53	<i>Escherichia coli</i> * (Detected or not detected)		500 ml	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023. Part 9221 F, B.	10 days
54	<i>Salmonella</i> spp. * (Detected or not detected)		500 ml	ISO 19250:2010	10 days
55	Total Aerobic Microbial Count (CFU) *		<ul style="list-style-type: none"> • Cleansing products <ul style="list-style-type: none"> - Surfactant - Cleansing - Shower Gel • Make up products <ul style="list-style-type: none"> - Lipstick - Eye shadow - Blush on 	50 g/ml	USP – NF:2024 <Chapter 61>
56	Total combined Yeasts and Molds Count (CFU) *	50 g/ml		7 days	
57	<i>Escherichia coli</i> * (Detected or not detected)	50 g/ml		USP – NF:2024 <Chapter 62>	10 days
58	<i>Staphylococcus aureus</i> * (Detected or not detected)	50 g/ml			10 days
59	<i>Pseudomonas aeruginosa</i> * (Detected or nor detected)	50 g/ml	10 days		

No	Testing	Type of Sample	Sample Amount	Method	Lead Time
60	<i>Candida albicans</i> * (Detected or not detected)	<ul style="list-style-type: none"> • Cleansing products <ul style="list-style-type: none"> - Surfactant - Cleansing - Shower Gel • Make up products <ul style="list-style-type: none"> - Lipstick - Eye shadow - Blush on 	50 g/ml	USP – NF:2024 <Chapter 62>	10 days
61	<i>Clostridium</i> spp. * (Detected or not detected)		50 g/ml		10 days
62	Antimicrobial Effectiveness Testing (Challenge Test) * : <ul style="list-style-type: none"> • <i>Staphylococcus aureus</i> (CFU) • <i>Pseudomonas aeruginosa</i> (CFU) • <i>Candida albicans</i> (CFU) • <i>Escherichia coli</i> (CFU) • <i>Aspergillus brasiliensis</i> (CFU) 		300 g/ml	- USP – NF:2024 <Chapter 51> - ISO 11930:2019	45 - 50 days
63	Total Aerobic Mesophilic bacteria Count (CFU) *		50 g/ml	ISO 21149:2017	5 days
64	Total Yeast and Mold Count (CFU) *		50 g/ml	ISO 16212:2017	7 days
65	<i>Escherichia coli</i> * (Detected or Not Detected)		50 g/ml	ISO 21150:2015	10 days
66	<i>Staphylococcus aureus</i> * (Detected or Not Detected)		50 g/ml	ISO 22718:2015	10 days
67	<i>Pseudomonas aeruginosa</i> * (Detected or Not Detected)		50 g/ml	ISO 22717:2015	10 days
68	<i>Candida albicans</i> * (Detected or Not Detected)	50 g/ml	ISO 18416:2015	10 days	

No	Testing	Type of Sample	Sample Amount	Method	Lead Time
69	Moisture *	• Cereal and products	100 g/ml	AOAC (2023) 945.38B	5 days
		• Milk powder		AOAC (2023) 927.05	5 days
		• Macaroni products		AOAC (2023) 926.07	5 days
		• Bakery products		AOAC (2023) 935.39A	5 days
70	Total fat *	• Cereals and products	300 g/ml	AOAC (2023) 945.38F	7 days
		• Wheat flour	300 g/ml	In-house method TC7.2-24 base on AOAC (2023) 2003.05	7 days
		• Bakery products			
		• Milk and products	300 g/ml	In-house method TC7.2-24 base on AOAC (2023) 989.05	7 days
71	Total nitrogen *	• Flour products • Bakery products • Milk and milk products	100 g/ml	In-house method TC7.2-19 base on AOAC (2023) 992.15	5 days
72	Total Solid *	Milk	100 g/ml	AOAC (2023) 990.19	5 days
73	Ash *		100 g/ml	AOAC (2023) 945.46	5 days
74	Ash *	• Milk powder	100 g/ml	AOAC (2023) 930.30	5 days
		• Macaroni products	100 g/ml	AOAC (2023) 925.11	5 days
		• Bakery products	100 g/ml	AOAC (2023) 935.39B	5 days
		• Bread	100 g/ml	AOAC (2023) 930.22	5 days
75	Sodium (Na) *	• Flour products	100 g/ml	In-house method TC 7.2-20 base on AOAC (2023) 984.27	7 days
76	Calcium (Ca) *	• Bakery products	100 g/ml		7 days
77	Iron (Fe) *	• Cereal products	100 g/ml		7 days
78	Potassium (K) *	• Milk products	100 g/ml		7 days

No	Testing	Type of Sample	Sample Amount	Method	Lead Time
79	Cholesterol *	<ul style="list-style-type: none"> • Flour products • Bakery products 	300 g/ml	In-house method TC7.2-22 based on AOAC (2023) 994.10	10 days
80	Fatty acids: Saturated Fatty Acid * <ul style="list-style-type: none"> • Butyric acid (C4:0) • Caproic acid (C6:0) • Caprylic acid (C8:0) • Capric acid (C10:0) • Undecanoic acid (C 11:0) • Lauric acid (C12:0) • Tridecanoic acid (C13:0) • Myristic acid (C14:0) • Pentadecanoic acid (C15:0) • Palmitic acid (C16:0) • Heptadecanoic acid (C17:0) • Stearic acid (C 18:0) • Arachidic acid (C20:0) • Heneicosanoic acid (C21:0) • Behenic acid (C22:0) • Trichosanoic acid (C23:0) • B138Lignoceric acid (C24:0) 	<ul style="list-style-type: none"> • Cereal products • Milk products 	300 g/ml	In-house method TC7.2-26 based on AOAC (2023) 996.06	7 days

No	Testing	Type of Sample	Sample Amount	Method	Lead Time
81	Total Sugar * : • Fructose • Sucrose • Maltose • Lactose • Glucose	<ul style="list-style-type: none"> • Flour products • Bakery products • Cereal products • Milk products 	300 g/ml	In-house method TC7.2-30 based on AOAC (2023) 982.14	7 days
82	Vitamin A *		300 g/ml	In-house method TC7.2-29 based on AOAC (2023) 992.06	10 days
83	Vitamin B1 *		300 g/ml	In-house method TC7.2-27 based on AOAC (2023) 942.23	7 days
84	Vitamin B2 *		300 g/ml	In-house method TC7.2-28 based on AOAC (2023) 970.65	7 days
85	Total carbohydrates/ Calories/ Calories from fat *		300 g/ml	Method of Analysis for Nutrition Labeling (1993) Chapter 1,5	7 days
86	Total dietary fiber *	<ul style="list-style-type: none"> • Flour and products • Bakery products • Cereal products 	300 g/ 1,000ml	In-house method TC7.2-25 based on AOAC (2023) 985.29	10 days