KRISADA
Krisada Laboratories Co.,Ltd
บริษัท กฤษฎา แลบบอราทอรีส์ จำกัด

6 Sukhaphiban 2 Road Soi 11 Yaek 2-3,
Khwaeng Prawet, Khet Prawet, Bangkok 10250
Tel: (66) 2 036 9889 Ext.430
Email: co-sales@krisadalab.com

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 based on 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 based on 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

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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 based on 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
33	Native Collage Type II	-	10 g/ml	ELISA	45 days
Heavy Metals & Minerals					
34	Aluminum (Al)	Cosmetics / Foods / Water / Beverages	100 g/ml	In-house method based on AOAC, In-house method ACM 005 (ICP-OES)	7 days
35	Arsenic (As)		100 g/ml	In-house method based on AOAC, In-house method ACM 005 (ICP-OES)	7 days
36	Barium (Ba)		100 g/ml	In-house method based on AOAC, In-house method ACM 005 (ICP-OES)	7 days
37	Cadmium (Cd)		100 g/ml	In-house method based on AOAC, In-house method ACM 005 (ICP-OES)	7 days
38	Calcium (Ca)		100 g/ml	In-house method based on AOAC, In-house method ACM 005 (ICP-OES)	7 days
39	Chromium (Cr)		100 g/ml	In-house method based on AOAC, In-house method ACM 005 (ICP-OES)	7 days

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Heavy Metals & Minerals					
40	Cobalt (Co)	Cosmetics / Foods / Water / Beverages	100 g/ml	In-house method based on AOAC, In-house method ACM 005 (ICP-OES)	7 days
41	Copper (Cu)		100 g/ml	In-house method based on AOAC, In-house method ACM 005 (ICP-OES)	7 days
42	Iron (Fe)		100 g/ml	In-house method based on AOAC, In-house method ACM 005 (ICP-OES)	7 days
43	Lithium (Li)		100 g/ml	In-house method based on AOAC, In-house method ACM 005 (ICP-OES)	7 days
44	Lead (Pb)		100 g/ml	In-house method based on AOAC, In-house method ACM 005 (ICP-OES)	7 days
45	Magnesium (Mg)		100 g/ml	In-house method based on AOAC, In-house method ACM 005 (ICP-OES)	7 days
46	Manganese (Mn)		100 g/ml	In-house method based on AOAC, In-house method ACM 005 (ICP-OES)	7 days
47	Mercury (Hg)		100 g/ml	In-house method based on AOAC, In-house method ACM 005 (ICP-OES)	7 days
48	Nickel (Ni)		100 g/ml	In-house method based on AOAC, In-house method ACM 005 (ICP-OES)	7 days
49	Potassium (K)		100 g/ml	In-house method based on AOAC, In-house method ACM 005 (ICP-OES)	7 days

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No	Testing	Type of Sample	Sample Amount	Method	Lead Time
Heavy Metals & Minerals					
50	Selenium (Se)	Cosmetics / Foods / Water / Beverages	100 g/ml	In-house method based on AOAC, In-house method ACM 005 (ICP-OES)	7 days
51	Silver (Ag)		100 g/ml	In-house method based on AOAC, In-house method ACM 005 (ICP-OES)	7 days
52	Sodium (Na)		100 g/ml	In-house method based on AOAC, In-house method ACM 005 (ICP-OES)	7 days
53	Thallium (Tl)		100 g/ml	In-house method based on AOAC, In-house method ACM 005 (ICP-OES)	7 days
54	Tin (Sn)		100 g/ml	In-house method based on AOAC, In-house method ACM 005 (ICP-OES)	7 days
55	Zinc (Zn)		100 g/ml	In-house method based on AOAC, In-house method ACM 005 (ICP-OES)	7 days
56	Heavy metals (as Pb)		100 g/ml	USP 32	7 days
57	Heavy Metals contamination in Drinking H2O	Water	1,000 ml	In-house method AWWA (ICP-OES)	7 days
Chromatography					
58	Aspartic acid	Cosmetics / Foods / Water / Beverages	100 g/ml	HPLC	7 days
59	Glutamic acid		100 g/ml	HPLC	7 days
60	Asparagine		100 g/ml	HPLC	7 days
61	Serine		100 g/ml	HPLC	7 days
62	Glutamine		100 g/ml	HPLC	7 days

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

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No	Testing	Type of Sample	Sample Amount	Method	Lead Time
Chromatography					
89	Avobenzone	Cosmetics	100 g/ml	GC	7 days
90	Octyl Methoxycinnamate (OMC)	Cosmetics	100 g/ml	GC	7 days
91	Qualitative Alcohols in Foods	Foods / Beverages	100 g/ml	GC	7 days
92	Qualitative Alcohols in Cosmetics	Cosmetics	100 g/ml	GC	7 days
93	Free Fatty Acid	Foods / Oil	300 g/ml	AOCS 2017 <Ca 5a-40>	5 days
94	Fatty Acid	Foods / Beverages	300 g	In-house method based on AOAC	7 days
		Oil	100 g/ml		
95	Total Aflatoxin	Foods / Beverages	300 g/ml	In-house method based on AOAC	7 days
96	Aflatoxin B1		300 g/ml	In-house method based on AOAC	7 days
97	Aflatoxin B2		300 g/ml	In-house method based on AOAC	7 days
98	Aflatoxin G1		300 g/ml	In-house method based on AOAC	7 days
99	Aflatoxin G2		300 g/ml	In-house method based on AOAC	7 days
Nutrition Analysis					
100	Cholesterol	Foods / Beverages	300 g/ml	In-house method based on AOAC	10 days
101	Dietary Fiber		300 g/ 1,000ml	In-house method based on AOAC	10 days
102	Saturated fats in FPs		300 g/ml	In-house method based on AOAC	7 days
103	Total Fat		300 g/ml	In-house method based on AOAC	7 days
104	Vitamin A (Retinol)		300 g/ml	In-house method based on AOAC	10 days
105	Vitamin B1 (Thiamine)		300 g/ml	In-house method based on AOAC	7 days
106	Vitamin B2 (Riboflavin)		300 g/ml	In-house method based on AOAC	7 days
107	Total Sugar		300 g/ml	In-house method based on AOAC	7 days
108	Fructose		300 g/ml	In-house method based on AOAC	7 days
109	Glucose		300 g/ml	In-house method based on AOAC	7 days
110	Lactose		300 g/ml	In-house method based on AOAC	7 days
111	Maltose		300 g/ml	In-house method based on AOAC	7 days

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No	Testing	Type of Sample	Sample Amount	Method	Lead Time
Nutrition Analysis					
112	Sucrose	Foods / Beverages	300 g/ml	In-house method based on AOAC	7 days
113	Calories from Fat		300 g/ml	Methods of Analysis for Nutrition Labeling 1993,Chapter 1,5	7 days
114	Energy (Kcal)		300 g/ml	Methods of Analysis for Nutrition Labeling 1993,Chapter 1,5	7 days
115	Total Carbohydrate		300 g/ml	Methods of Analysis for Nutrition Labeling 1993,Chapter 1,5	7 days
Notification of Ministry of Public Health Regulation					
116	Nutrition Labels (Ref. MOPH. No.445)	Foods / Beverages	1,000 g/ml	Calculate	7 days
117	Water Packages (Ref. MOPH. No.61&135)	Water	5,000 ml	Calculate	10 days
Microbiological Analysis					
118	Total Aerobic Plate Count (TPC)	Cosmetics	50 g/ml	USP-NF:2024 <Chapter 61>, ISO 21149:2017 and ISO 16212:2017	7 days
119	Total Aerobic Microbial Count (TAMC)		50 g/ml	USP-NF:2024 <Chapter 61>	5 days
120	Total Aerobic Mesophilic bacteria Count (TAMC)		50 g/ml	ISO 21149:2017	5 days
121	Total combined Yeasts & Molds Count (TYMC)		50 g/ml	USP-NF:2024 <Chapter 61>	7 days
122	Total Yeast and Mold Count (TYMC)		50 g/ml	ISO 16212:2017	7 days
123	Antimicrobial Effectiveness Testing (Challenge Test) • *Staphylococcus aureus* • *Pseudomonas aeruginosa* • *Candida albicans* • *Escherichia coli* • *Aspergillus brasiliensis*		300 g/ml	USP-NF:2024 <Chapter 51>, ISO 11930:2019	45–50 days
124	*Candida albicans* (D/ND)		50 g/ml	USP-NF:2024 <Chapter 62>, ISO 18416:2015	10 days
125	*Clostridium* spp. (D/ND)		50 g/ml	USP-NF:2024 <Chapter 62>,	10 days

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No	Testing	Type of Sample	Sample Amount	Method	Lead Time
Microbiological Analysis					
126	*Escherichia coli* (D/ND)	Cosmetics	50 g/ml	USP-NF:2024 <Chapter 62>, ISO 21150:2015	10 days
127	*Salmonella* spp. (D/ND)		50 g/ml	USP-NF:2024 <Chapter 62>,	10 days
128	*Staphylococcus aureus* (D/ND)		50 g/ml	USP-NF:2024 <Chapter 62>, ISO 22718:2015	10 days
129	*Pseudomonas aeruginosa* (D/ND)		50 g/ml	USP-NF:2024 <Chapter 62>, ISO 22717:2015	10 days
130	Aerobic Plate Count (APC)	Foods	300 g/ml	FDA BAM *Online* , 2001 (Chapter 3)	7 days
131	Total Yeasts and Molds (TYMC)		300 g/ml	FDA BAM *Online* , 2001 (Chapter 18)	7 days
132	Enterobacteriaceae (cfu/g,ml)		300 g/ml	APHA 2015 (Chapter 9)	5 days
133	Enterococci (cfu/g,ml)		300 g/ml	APHA 2015 (Chapter 10)	10 days
134	Antimicrobial Effectiveness Testing (Challenge Test) • *Staphylococcus aureus* • *Pseudomonas aeruginosa* • *Candida albicans* • *Escherichia coli* • *Aspergillus brasiliensis*		300 g/ml	USP-NF:2024 <Chapter 62>, ISO 11930:2019	45–50 days
135	*Bacillus cereus* (cfu)		300 g/ml	FDA BAM *Online* , 2001 (Chapter 18)	10 days
136	*Clostridium perfringens* (cfu)		300 g/ml	FDA BAM *Online* , 2001 (Chapter 16)	10 days
137	*Clostridium perfringens* (D/ND in 0.1 g)		300 g/ml	FDA BAM *Online* , 2001 (Chapter 16)	10 days
138	Coliforms (MPN)		300 g/ml	FDA BAM *Online* , 2020 (Chapter 4)	10 days
139	Coliforms (Petrifilm)		300 g/ml	AOAC (2019) 991.14	10 days
140	*Escherichia coli* (MPN)		300 g/ml	FDA BAM *Online* , 2020 (Chapter 4)	10 days
141	*Escherichia coli* (D/ND)		300 g/ml	FDA BAM *Online* , 2020 (Chapter 4)	10 days

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No	Testing	Type of Sample	Sample Amount	Method	Lead Time
Microbiological Analysis					
142	*Escherichia coli* (Petrifilm)	Foods	300 g/ml	AOAC (2019) 991.14	10 days
143	*Salmonella* spp. (D/ND in 25 g,ml)		300 g/ml	ISO 6579 (2017)/Amd.1 (2020)	10 days
144	*Staphylococcus aureus* (cfu)		300 g/ml	FDA BAM *Online* , 2016 (Chapter 12)	10 days
145	*Staphylococcus aureus* (D/ND in 0.1 g)		300 g/ml	FDA BAM *Online* , 2016 (Chapter 12)	10 days
146	*Listeria monocytogenes* (D/ND in 25g)		300 g/ml	ISO11290-1:2017	12 days
147	*Listeria* spp. (D/ND in 25g)		300 g/ml	ISO11290-1:2017	12 days
148	Aerobic Plate Count (APC)	Water	500 ml	FDA BAM *Online* , 2001 (Chapter 3)	7 days
149	*Escherichia coli* (MPN/100ml), (D/ND in100ml)		500 ml	APHA,AWWA,WEF,24th Part 9221F,B.	7 days
150	Coliform (MPN/100ml)		500 ml	APHA,AWWA,WEF,24th Part 9221B	7 days
151	*Staphylococcus aureus* (cfu/100ml)		500 ml	APHA,AWWA,WEF,24th Part 9213B	7 days
152	*Salmonella* spp. (D/ND per 100ml)		500 ml	ISO 19250:2010	7 days
153	*Escherichia coli* (MPN)	Food Supplements	300 g/ml	FDA BAM *Online* , 2020 (Chapter 4)	10 days
154	*Staphylococcus aureus* (D/ND in 0.1 g)		300 g/ml	FDA BAM *Online* , 2016 (Chapter 12)	10 days
155	*Clostridium* spp. (D/ND in 0.1 g)		300 g/ml	USP-NF:2024 <Chapter 62>	10 days
156	*Salmonella* spp. (D/ND in 25 g,ml)		300 g/ml	ISO 6579 (2017)/Amd.1 (2020)	10 days
157	Total Aerobic Microbial Count (TAMC)	Herbal Products	50 g/ml	THP (2021)	7 days
158	Total combined Yeasts & Molds Count (TYMC)		50 g/ml	THP (2021)	7 days
159	*Clostridium* spp. (D/ND in 1g,10g)		50 g/ml	THP (2021)	10 days
160	*Escherichia coli* (D/ND in 1g,10g)		50 g/ml	THP (2021)	10 days
161	*Salmonella* spp. (D/ND in 10g,25g)		50 g/ml	THP (2021)	10 days
162	*Staphylococcus aureus* (D/ND in 1g)		50 g/ml	THP (2021)	10 days
163	*Pseudomonas aeruginosa* (D/ND in 1g)		50 g/ml	THP (2021)	10 days
164	Bile-Tolerant Gram Negative Bacteria (CFU ,D/ND)		50 g/ml	THP (2021)	10 days

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No	Testing	Type of Sample	Sample Amount	Method	Lead Time
Disk Diffusion Test					
165	*Staphylococcus aureus*	Cosmetics / Household Products	30 g/ml	Eucast Online , 2024	10 days
166	*Pseudomonas aeruginosa*		30 g/ml		10 days
167	*Candida albicans*		30 g/ml		10 days
168	*Escherichia coli*		30 g/ml		10 days
169	Aerobic bacteria	Cosmetics / Household Products / Foods / Other	30 g/ml	Etc.	10 days
170	Anaerobic bacteria	Cosmetics * Metrix of the sample (Liquid / Semi-Solid) *	30 g/ml	Eucast *Online* , 2024	10 days
171	*Cutibacterium acnes*		30 g/ml	Eucast *Online* , 2024	10 days
Minimum Inhibitory Concentration (MIC)					
172	Cutibacterium acnes	Cosmetics * Metrix of the sample (Liquid)	30 g/ml	CLSI	10 days
173	Aerobic bacteria		30 g/ml	CLSI	10 days

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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) *	• Food Supplement - 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 • Make-up products - Lipstick • Moisturizer products - 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 *	• Flour • Cereal and cereal products	100 g/ml	In-house method TC7.2-19 based on AOAC (2023) 992.15	5 days
			100 g/ml		
11	Ash *		100 g/ml	AOAC (2023) 923.03	5 days
			100 g/ml	AOAC (2023) 945.38 (C)	5 days
12	Ascorbic Acid (Vitamin C) *	• Beverage in Sealed Container • Water with dissolve carbon dioxide or oxygen gas • Fruit and Vegetable Juices • Concentrated flavored syrup	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	In-house method TC7.2-17 based on AOAC (2023) 972.11	7 days

* The scope that has been certified with ISO/IEC 17025

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No	Testing	Type of Sample	Sample Amount	Method	Lead Time
14	Aluminum (Al) *	• Potable water - Drinking water - Drinking water in sealed container - Supply water - Process water • Non-potable water - 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, 24th 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 (Pd) *				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, 24th Edition, 2023, Part 3112 B.	7 days

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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	*Escherichia coli* * *(Detected or Not Detected)*		50 g/ml	USP – NF:2024 <Chapter 62>	10 days
30	*Staphylococcus aureu* s * (Detected or Not Detected)		50 g/ml		10 days
31	*Pseudomonas aeruginosa* * (Detected or Not Detected)		50 g/ml		10 days
32	*Candida albicans* * (Detected or Not Detected)		50 g/ml		10 days
33	*Clostridium spp.* * (Detected or Not Detected)		50 g/ml		10 days
34	Antimicrobial Effectiveness Testing (Challenge Test) * : • *Staphylococcus aureus* (CFU) • *Pseudomonas aeruginosa* (CFU) • *Candida albicans* (CFU) • *Escherichia coli* (CFU) • *Aspergillus brasiliensis* (CFU)		300 g/ml	USP – NF:2024 <Chapter 51>	45–50 days

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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	*Escherichia coli* * *(Detected or Not Detected)*		50 g/ml	ISO 21150:2015	10 days
38	*Staphylococcus aureus* * (Detected or Not Detected)		50 g/ml	ISO 22718:2015	10 days
39	*Pseudomonas aeruginosa* * (Detected or Not Detected)		50 g/ml	ISO 22717:2015	10 days
40	*Candida albicans* * (Detected or Not Detected)		50 g/ml	ISO 18416:2015	10 days
41	Antimicrobial Effectiveness Testing (Challenge Test) * : • *Staphylococcus aureus* (CFU) • *Pseudomonas aeruginosa* (CFU) • *Candida albicans* (CFU) • *Escherichia coli* (CFU) • *Aspergillus brasiliensis* (CFU)		300 g/ml	ISO 11930:2019	45–50 days

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

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No	Testing	Type of Sample	Sample Amount	Method	Lead Time
51	*Staphylococcus aureus* * (CFU/Detected or not detected)	• Potable water - Drinking water - Drinkinh water in sealed container - Supply water - Process water - Filtered water • Non - Potable water - Supply water • Ice	500 ml	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023. Part 9213 B.	10 days
52	Coliforms (MPN) *		500 ml	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023. Part 9221 B.	10 days
53	*Escherichia coli* * (Detected or not detected)		500 ml	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023. Part 9221 F, B.	10 days
54	*Salmonella* spp. * (Detected or not detected)		500 ml	ISO 19250:2010	10 days
55	Total Aerobic Microbial Count (CFU) *	• Clensing products - Surfactant - Cleansing - Shower Gel • Make up products - Lipstick - Eye shadow - Blush on	50 g/ml	USP – NF:2024 <Chapter 61>	5 days
56	Total combined Yeasts and Molds Count (CFU) *		50 g/ml		7 days
57	*Escherichia coli* * (Detected or not detected)		50 g/ml	USP – NF:2024 <Chapter 62>	10 days
58	*Staphylococcus aureus* * (Detected or not detected)		50 g/ml		10 days
59	*Pseudomonas aeruginosa* * (Detected or nor detected)		50 g/ml		10 days

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No	Testing	Type of Sample	Sample Amount	Method	Lead Time
60	*Candida clbicans* * (Detected or not detected)	• Clensing products - Surfactant - Cleansing - Shower Gel • Make up products - Lipstick - Eye shadow - Blush on	50 g/ml	USP – NF:2024 <Chapter 62>	10 days
61	*Clostridium* spp. * (Detected or not detected)		50 g/ml		10 days
62	Antimicrobial Effectiveness Testing (Challenge Test) * : • *Staphylococcus aureus* (CFU) • *Pseudomonas aeruginosa* (CFU) • *Candida albicans* (CFU) • *Escherichia coli* (CFU) • *Aspergillus brasiliensis* (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	*Escherichia coli* * *(Detected or Not Detected)*		50 g/ml	ISO 21150:2015	10 days
66	*Staphylococcus aureus* * (Detected or Not Detected)		50 g/ml	ISO 22718:2015	10 days
67	*Pseudomonas aeruginosa* * (Detected or Not Detected)		50 g/ml	ISO 22717:2015	10 days
68	*Candida albicans* * (Detected or Not Detected)		50 g/ml	ISO 18416:2015	10 days

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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	Totol fat *	• Cereals and products	300 g/ml	AOAC (2023) 945.38F	7 days
		• Wheat flour • Bakery products	300 g/ml	In-house method TC7.2-24 base on AOAC (2023) 2003.05	7 days
		• 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 • Bakery products • Cereal products • Milk products	100 g/ml	In-house method TC 7.2-20 base on AOAC (2023) 984.27	7 days
76	Calcium (Ca) *		100 g/ml		7 days
77	Iron (Fe) *		100 g/ml		7 days
78	Potassium (K) *		100 g/ml		7 days

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No	Testing	Type of Sample	Sample Amount	Method	Lead Time
79	Cholesterol *	• Flour products • Bakery products • Cereal products • Milk products	300 g/ml	In-house method TC7.2-22 based on AOAC (2023) 994.10	10 days
80	Fatty acids: Saturated Fatty Acid * • Butyric acid (C4:0) • Caproic acid (C6:0) • Caprylic acid (C8:0) • Capric acid (C10:0) • Undecanoic acid (C 11:0) • Laurie acid (C12:0) • Tridecanoic acid (C13:0) • Myristic acid (C14:0) • Pentadecanoic acid (C15:0) • Palmitic acid (C16:0) • Heptadecanoic acid (Cl 7:0) • 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)		300 g/ml	In-house method TC7.2-26 based on AOAC (2023) 996.06	7 days

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No	Testing	Type of Sample	Sample Amount	Method	Lead Time
81	Total Sugar * : • Fructose • Sucrose • Maltose • Lactose • Glucose	• 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 *	• 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

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