

Laboratory **Geochem Laboratories Pvt. Ltd., Aman Commercial Complex, Aroor, Alappuzha, Kerala**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-7888 (in lieu of T-4121 & T-4122)**

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Validity **22.09.2018 to 21.09.2020**

Last Amended on **28.05.2019**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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BIOLOGICAL TESTING

I.	FOOD & AGRICULTURAL PRODUCTS			
1.	Tea, Coffee & Cocoa Products	Total plate count	BAM	≥10 cfu/g
			AOAC	≥ 10 cfu/g
		Yeast&Mould	IS 5403	≥ 10 cfu/g
		Total coliforms	BAM	≥ 10 cfu/g
			BAM	(3 MPN to 1100 MPN)/g
			AOAC	≥ 10 cfu/g
		Faecal coliforms	BAM	(3 MPN to 1100 MPN)/g
		E. coli	BAM	≥ 10 cfu/g
			BAM	(3 MPN to 1100 MPN)/g
			AOAC	≥ 10 cfu/g
		Staphylococcus aureus	BAM	≥10 cfu/g
			AOAC	≥ 10 cfu/g
		Salmonella	BAM	Qualitative (Absent/Present) in 25g
			AOAC	Qualitative (Absent/Present) in 25g
		Vibrio cholerae	BAM	Qualitative (Absent/Present) in 25g
		Vibrio parahaemolyticus	BAM	(3 MPN to 1100 MPN)/g
		Vibrio vulnificus	BAM	(3 MPN to 1100 MPN)/g
		Bacillus cereus	BAM	≥ 100 cfu/g
		Shigella	BAM	Qualitative (Absent/Present) in 25g
		Listeria monocytogenes	BAM	Qualitative (Absent/Present) in 25g
	Enterobacteriaceae	IS 7402	≥ 10 cfu/g	
	Clostridium perfringens	BAM	≥ 10 cfu/g	
	Faecal streptococci	IS 5887 (Part 2)	(3 MPN to 1100 MPN)/g	

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2.	Spice & Condiments Whole & powdered Spices and Herbs and their Oleoresins (Black Pepper, Chilly, Curry Powder, Turmeric, Cumin, White Pepper, Coriander, Seasoning Powder)	Total plate count	BAM AOAC	≥10 cfu/g ≥ 10 cfu/g
		Yeast&Mould	IS 5403	≥ 10 cfu/g
		Total coliforms	BAM BAM AOAC	≥ 10 cfu/g (3 MPN to 1100 MPN)/g ≥ 10 cfu/g
		Faecal coliforms	BAM	(3 MPN to 1100 MPN)/g
		E. coli	BAM BAM AOAC	≥ 10 cfu/g (3 MPN to 1100 MPN)/g ≥ 10 cfu/g
		Staphylococcus aureus	BAM AOAC	≥10 cfu/g ≥ 10 cfu/g
		Salmonella	BAM AOAC	Qualitative (Absent/Present) in 25g Qualitative (Absent/Present) in 25g
		Vibrio cholerae	BAM	Qualitative (Absent/Present) in 25g
		Vibrio parahaemolyticus	BAM	(3 MPN to 1100 MPN)/g
		Vibrio vulnificus	BAM	(3 MPN to 1100 MPN)/g
		Bacillus cereus	BAM	≥ 100 cfu/g
		Shigella	BAM	Qualitative (Absent/Present) in 25g
		Listeria monocytogenes	BAM	Qualitative (Absent/Present) in 25g
		Enterobacteriaceae	IS 7402	≥ 10 cfu/g
		Clostridium perfringens	BAM	≥ 10 cfu/g
		Faecal streptococci	IS 5887 (Part 2)	(3 MPN to 1100 MPN)/g

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3.	Cooked Food Stuffs Ready to Eat Processed Food Stuffs, Snacks (Dosa, Idli, Chappathi, Samosa, Paratha)	Total plate count	BAM	≥10 cfu/g
			AOAC	≥ 10 cfu/g
		Yeast&Mould	IS 5403	≥ 10 cfu/g
		Total coliforms	BAM	≥ 10 cfu/g
			BAM	(3 MPN to 1100 MPN)/g
			AOAC	≥ 10 cfu/g
		Faecal coliforms	BAM	(3 MPN to 1100 MPN)/g
		E. coli	BAM	≥ 10 cfu/g
			BAM	(3 MPN to 1100 MPN)/g
			AOAC	≥ 10 cfu/g
		Staphylococcus aureus	BAM	≥10 cfu/g
			AOAC	≥ 10 cfu/g
		Salmonella	BAM	Qualitative (Absent/Present) in 25g
			AOAC	Qualitative (Absent/Present) in 25g
		Vibrio cholerae	BAM	Qualitative (Absent/Present) in 25g
		Vibrio parahaemolyticus	BAM	(3 MPN to 1100 MPN)/g
		Vibrio vulnificus	BAM	(3 MPN to 1100 MPN)/g
Bacillus cereus	BAM	≥ 100 cfu/g		
Shigella	BAM	Qualitative (Absent/Present) in 25g		
Listeria monocytogenes	BAM	Qualitative (Absent/Present) in 25g		
Enterobacteriaceae	IS 7402	≥ 10 cfu/g		
Clostridium perfringens	BAM	≥ 10 cfu/g		
Faecal streptococci	IS 5887 (Part 2)	(3 MPN to 1100 MPN)/g		
4.	Thermally Processed Fruits and Vegetable Products	Total plate count	IS 5402	≥10 cfu/g
		Yeast&Mould	IS 5403	≥ 10 cfu/g

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5.	Dehydrated Fruits and Vegetable Products (Soup, Desiccated Coconut Powder, Table Olives, Raisins, Pistachio Nuts, Dates, Dry Fruits and Nuts)	Total plate count	IS 5402	≥10 cfu/g
6.	Carbonated Beverages, Ready to Serve Beverages Including Fruit Beverages	Total plate count	IS 5402	≥10 cfu/g
		Yeast&Mould	IS 5403	≥ 10 cfu/g
		Coliforms	IS 5402(Part 1)	≥ 10 cfu/g
7.	Tomato Products	Yeast	IS 5403	≥ 10 cfu/g
		Mould	IS 5403	≥ 10 cfu/g
8.	Jam/Marmalade/Fruit jelly/Fruit Chutney and Sauces	Yeast&Mould	IS 5403	≥ 10 cfu/g
9.	Frozen Fruits and Vegetable Products	Total plate count	IS 5402	≥10 cfu/g
10.	Preserves	Yeast & Mould	IS 5403	≥ 10 cfu/g
11.	Pickles	Yeast & Mould	IS 5403	≥ 10 cfu/g
12.	Fruit Cereal Flakes	Yeast & Mould	IS 5403	≥ 10 cfu/g
13.	All Fruit and Vegetable Products and Ready to Serve Beverages Including Fruit Beverages and Synthetic Products	E. coli	ISO 16649(Part 2)	≥10 cfu/g
		Staphylococcus aureus	ISO 6888(Part 1)	≥10 cfu/g
		Salmonella	ISO 6579(Part1)	Qualitative (Absent/Present) in 25g
			AOAC	Qualitative (Absent/Present) in 25g

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		Vibrio cholerae	IS 5887 (Part 5)	Qualitative (Absent/Present) in 25g
		Shigella	IS 5887 (Part 7)	Qualitative (Absent/Present) in 25g
14.	Milk and Milk Products (Pasteurized/ Boiled Milk/ Flavored Milk, Pasteurized Cream, Sterilized Milk, Icecream, Curd Cheese, Butter)	Total plate count	IS 5402	≥10 cfu/g
		Yeast&Mould	IS 5403	≥10 cfu/g
		Coliforms	IS 5401(Part 1)	≥10 cfu/g
		E. coli	ISO 16649(Part 2)	≥10 cfu/g
		Staphylococcus aureus	ISO 6888(Part 1)	≥10 cfu/g
		Salmonella	ISO 6579(Part1)	Qualitative (Absent/Present) in 25g
			AOAC	Qualitative (Absent/Present) in 25g
		Bacillus cereus	IS 5887 (Part 6)	≥100 cfu/g
		Listeria monocytogenes	BAM	Qualitative (Absent/Present) in 25g
		Clostridium perfringens	BAM	≥10 cfu/g
		Sulphite reducing Clostridium	BAM	≥100 cfu/g
15.	Tea, Coffee, Cocoa Powder, Spices and Condiments- Whole and powdered spices and herbs and their Oleoresins (Black pepper, Chilly, Curry powder, Tumeric, Cumin, White Pepper, Coriander,	Listeria monocytogenes	AOAC-21 st Ed 2019-2004.02 (VIDAS)	Qualitative (Absent/Present) in 25g
		Salmonella species	AOAC-21 st Ed 2019-2013.01 (VIDAS)	Qualitative (Absent/Present) in 25g

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	Seasoning Powder) Cooked Food stuff, Ready to eat processed food stuffs, Snacks (Dosa, Idli, Chappathi, Samosa, Paratha) All Fruit and Vegetables products and ready to serve beverages including fruit beverage and synthetic products, Milk and Milk products (Pasteurized/ Boiled Milk/Flavored Milk, Pasteurized Milk, Pasteurized cream, Sterilized Milk, Ice cream, Curd, Cheese, Butter			
16.	Marine /Aqua culture Food Products (Raw and Processed Shrimps, Squid, Octopus,	Salmonella sp.	AOAC-21 st Ed 2019-2013.01 (VIDAS)	Qualitative (Absent/Present) in 25g
		Listeria monocytogenes	AOAC-21 st Ed 2019-2004.02 (VIDAS)	Qualitative (Absent/Present) in 25g

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	Cuttlefish, Clam Meat, Crab Meat and their products, Cooked/Blanched Shrimps, Cooked Squid Rings and Tentacles, Pasteurized Crab Meat, Cooked Octopus, Clam Meat			
II.	WATER			
1.	Water for Processed Food Industries	Standard plate count	IS 1622	≥ 1 cfu/ml
		Coliform bacteria	IS 1622	1 MPN/100ml to 161 MPN/100 ml
		E. coli	IS 1622	1 MPN/100ml to 161 MPN/100 ml
		Proteolytic bacteria	IS 4251	≥1 cfu/ml
		Lipolytic bacteria	IS 4251	≥ 1cfu/ml
2.	Drinking Water	Total Coliform	IS 1622	1 MPN/100ml to 161 MPN/100 ml
		E.coli	IS 1622	1 MPN/100ml to 161 MPN/100 ml

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CHEMICAL TESTING

I. FOOD AND AGRICULTURAL PRODUCTS				
1.	Thermally processed Fruit Nectars/Fruit Beverages/Fruit Drinks/Fruit Juice/Ready to Serve Fruit Beverages/Jam/Jelly	Total soluble solids	FSSAI Manual for Fruits & Vegetables:1.6	0.1% to 80 %
		Acidity/Titrable Acidity of Syrup/Sample (as Malic Acid, Oxalic Acid, Citric Acid monohydrate, Citric Acid anhydrous, Tartaric Acid, Lactic Acid, Acetic Acid, Oleic Acid.)	FSSAI Manual for Fruits & Vegetables:2.4	0.1 % to 10 %
		Fill of container	FSSAI Manual for Fruits & Vegetables:1.3	80 % to 100 %
		Total Sugar as sucrose/Reducing Sugar/total Reducing Sugar/added sugar	FSSAI Manual for Fruits & Vegetables:2.6	1.0 % to 70 %
		Total soluble solids free of added salt	FSSAI Manual for Fruits & Vegetables:2.12	0.1% to 80 %
		Sorbic acid	GCKL/QS/C/5.4/078 Issue No. 1, Issue Date:22/01/2018	25mg/kg to 250 mg/kg
		Benzoic acid	GCKL/QS/C/5.4/078 Issue No. 1, Issue Date:22/01/2018	25mg/kg to 250 mg/kg
2.	Dehydrated Vegetables	Moisture	FSSAI Manual for Fruits & Vegetables:17.17.2	0.1 % to 80 %
		Sulphite	FSSAI Manual for Fruits & Vegetables:17.7 AOAC 990.28	10 mg/kg to 1000 mg/kg
		Total ash	FSSAI Manual for Fruits & Vegetables:17.3	0.1 % to 40 %

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		Acid insoluble ash	FSSAI Manual for Fruits & Vegetables:17.4	0.1 % to 10 %
		Peroxidase test	FSSAI Manual for Fruits & Vegetables:17.5	Qualitative (Positive/Negative)
		Sorbic acid	GCKL/QS/C/5.4/078 Issue No. 1, Issue Date:22/01/2018	25mg/kg to 250 mg/kg
		Benzoic acid	GCKL/QS/C/5.4/078 Issue No. 1, Issue Date:22/01/2018	25 mg/kg to 250 mg/kg
3.	Cereals and Cereal Products	Moisture	FSSAI Manual for Cereals & Cereals Products-2.0, 8.1	1 % to 20 %
		Total ash	FSSAI Manual for Cereals & Cereals Products-8.2	0.1 % to 20 %
		Acid insoluble ash	FSSAI Manual for Cereals & Cereals Products-8.3	0.1 % to 10 %
		Gluten	FSSAI Manual for Cereals & Cereals Products-8.4	5 % to 20 %
		Alcoholic acidity	FSSAI Manual for Cereals & Cereals Products-8.5	0.05 % to 1 %
		protein	FSSAI Manual for Cereals & Cereals Products-8.7	1 % to 25 %
		Uric acid	GCKL/QS/C/5.4/077 Issue No. 1, Issue Date:22/01/2018	40 mg/kg to 1000 mg/kg
		Crude fibre	FSSAI Manual for Cereals & Cereals Products-8.8	0.1 % to 50 %
4.	Cocoa Powder	Moisture	FSSAI Manual for beverages, sugar and sugar products and confectionary Products-4.2	0.1 % to 80 %

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		Total ash	FSSAI Manual for beverages, sugar and sugar products and confectionary Products-4.4	0.1 % to 40 %
		Acid insoluble ash	FSSAI Manual for beverages, sugar and sugar products and confectionary Products-4.5	0.1 % to 10 %
		Alkalinity of total ash	FSSAI Manual for beverages, sugar and sugar products and confectionary Products-4.6	0.1 % to 10 %
		Total fat (cocoa butter)	FSSAI Manual for beverages, sugar and sugar products and confectionary Products-4.3	0.1 % to 40 %
		Sorbic acid	GCKL/QS/C/5.4/078 Issue No. 1, Issue Date:22/01/2018	25mg/kg to 250 mg/kg
		Benzoic acid	GCKL/QS/C/5.4/078 Issue No. 1, Issue Date:22/01/2018	25mg/kg to 250 mg/kg
5.	Pickles	Drained weight	FSSAI Manual for Fruits & Vegetables:18.1	45 % to 70 %
		Titration Acidity, acidity as citric acid/acetic acid/maleic acid etc	FSSAI Manual for Fruits & Vegetables:18.3,18.4	0.1 % to 20 %
		Sodium Chloride (NaCl) Salt/in Brine	FSSAI Manual for Fruits & Vegetables:18.2	0.1 % to 10.0 %
		Sorbic acid	GCKL/QS/C/5.4/078 Issue No. 1, Issue Date:22/01/2018	25 mg/kg to 250 mg/kg
		Benzoic acid	GCKL/QS/C/5.4/078 Issue No. 1, Issue Date:22/01/2018	25 mg/kg to 250 mg/kg

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		Butylated Hydroxy anisole(BHA)	GCKL/QS/C/5.4/068 Issue No. 1, Issue Date:26/08/2017	25mg/kg to 200 mg/kg
		Tert-Butyl hydroquinone (TBHQ)	GCKL/QS/C/5.4/068 Issue No. 1, Issue Date:26/08/2017	25 mg/kg to 200 mg/kg
		Butylated Hydroxy Toluene(BHT)	GCKL/QS/C/5.4/068 Issue No. 1, Issue Date:26/08/2017	25 mg/kg to 200 mg/kg
6.	Milk and Ice Cream	Detection of cane sugar in milk	FSSAI Manual for Milk & Milk Products:1.2.1	Qualitative (0.1%)
		Detection of starch in milk	FSSAI Manual for Milk & Milk Products:1.2.2	Qualitative (0.02%)
		Detection of cellulose in milk	FSSAI Manual for Milk & Milk Products:1.2.3	Qualitative
		Detection of added Urea in milk	FSSAI Manual for Milk & Milk Products:1.2.4	Qualitative
		Detection of ammonium compounds in milk	FSSAI Manual for Milk & Milk Products:1.2.5	Qualitative
		Presence of sulphates in milk	FSSAI Manual for Milk & Milk Products:1.2.6	Qualitative (0.05%)
		Detection of added glucose in milk	FSSAI Manual for Milk & Milk Products:1.2.7	Qualitative (0.1%)
		Detection of sodium chloride in milk	FSSAI Manual for Milk & Milk Products:1.2.8	Qualitative (0.02%)
		Presence of foreign fat in milk	FSSAI Manual for Milk & Milk Products:1.2.9	Qualitative
		Detection of nitrates in milk (pond water)	FSSAI Manual for Milk & Milk Products:1.2.10	Qualitative
		Detection of neutralizers in milk	FSSAI Manual for Milk & Milk Products:1.2.11	Qualitative (0.1% for NaOH, 0.1% for Na ₂ CO ₃ and 0.2% for NaHCO ₃)

Vinay Tyagi
Convenor

Mallika Gope
Program Manager

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		Presence of anionicdetergents	FSSAI Manual for Milk & Milk Products:1.2.14	Qualitative (0.15%)
		Presence of skimmed milk powder in natural milk	FSSAI Manual for Milk & Milk Products:1.2.15	Qualitative
		Presence of formalin in milk	FSSAI Manual for Milk & Milk Products:1.2.17	Qualitative
		Presence of hydrogen peroxide in milk	FSSAI Manual for Milk & Milk Products:1.2.18	Qualitative
		Presence of boric acid and borates in milk	FSSAI Manual for Milk & Milk Products:1.2.19	Qualitative
		Presence of salicylic acid in milk	FSSAI Manual for Milk & Milk Products:1.2.20	Qualitative
		Milk fat	FSSAI Manual for Milk & Milk Products:1.3.4, 7.4	0.5 % to 80 %
		Milk solids not fat	FSSAI Manual for Milk & Milk Products:1.3.3, 7.2	0.5 % to 15 %
		Total solids	FSSAI Manual for Milk & Milk Products:1.3.3, 7.2	1.0 % to 65 %
		Weight/volume	FSSAI Manual for Milk & Milk Products:7.3	200g/l to 900 g/l
		Milk protein	FSSAI Manual for Milk & Milk Products:7.5,	0.5 % to 50 %
		Sorbic acid	GCKL/QS/C/5.4/078 Issue No. 1, Issue Date:22/01/2018	25 mg/kg to 500 mg/kg
		Benzoic acid	GCKL/QS/C/5.4/078 Issue No. 1, Issue Date:22/01/2018	25 mg/kg to 500 mg/kg
7.	Herbs, Spices & Condiments	Moisture	IS 1797	0.1 % to 20 %
		Total Ash	IS 1797	0.1 % to 20 %
		Non volatile Ether Extract	IS 1797	0.2 % to 10 %
		Acid insoluble Ash	IS 1797	0.1 % to 20 %
		Crude Fibre	IS 1797	0.1 % to 50 %
		Volatile oil	IS 1797	0.1 % to 25 %

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		Water insoluble Ash	IS 1797	0.1 % to 20 %
		Alcohol Soluble extract	IS 1797	0.5 % to 6 %
		Cold water soluble extract	IS 1797	5 % to 60 %
		Sulphite	AOAC 990.28	2mg/kg to 1000 mg/kg
		Salt (NaCl)	IS 1797	0.1 % to 25 %
		Lead Chromate	Manual of methods of analysis of foods, Lab manual 10, 15.6	Qualitative
		Sorbic acid	GCKL/QS/C/5.4/078 Issue No. 1, Issue Date:22/01/2018	25 mg/kg to 200 mg/kg
		Benzoic acid	GCKL/QS/C/5.4/078 Issue No. 1, Issue Date:22/01/2018	25 mg/kg to 200 mg/kg
A.	Pepper and Pepper Products	Piperine	ASTA Method12.1	0.1 % to 50 %
B.	Turmeric Preparations	Curcumin	ASTA 18.0	0.1 % to 95 %
8.	Tea	Moisture	IS 13853 FSSAI Manual for beverages, sugar and sugar products and confectionary Products-5.2	0.1 % to 25 %
		Crude fiber	IS 16041, IS 102261 (Part-1)	0.1 % to 30 %
		Total ash	IS 13854	0.1 % to 25 %
		Water soluble ash in total ash	IS13855	0.1 % to 80 %
		Water insoluble ash	IS 13855	0.1 % to 80 %
		Acid insoluble ash	IS 13857	0.1 % to 60 %
		Caffeine	IS 16027 ISO 10727	0.01 % to 50 %
		Alkalinity of water soluble ash	IS 13856	0.1 % to 10 %

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		Waterextract	IS 13862	0.1 % to 80 %
		Iron Filing	IS 3633	1mg/kg to 5000 mg/kg
		Added colouring matter	IS 15642 (Part I & II)	Qualitative [Present/Absent]
9.	Oils & Fats	Appearance (clarity)	GCKL/QS/C/5.4/065 Issue No. 1, Issue Date:01/03/2017	Qualitative Clear/Not Clear
		Taste	GCKL/QS/C/5.4/065 Issue No. 1, Issue Date:01/03/2017	Qualitative Agreeable/Disagreeable
		Odour	GCKL/QS/C/5.4/065 Issue No. 1, Issue Date:01/03/2017	Qualitative Agreeable/Disagreeable
		FFA	IS 548(Part 1)	0.01 to 10
		Acid value	IS 548 (Part 1)	0.01 to 10
		Iodine Value	IS 548 (Part 1)	0.5 to 200
		Moisture	IS 548 (Part 1)	0.01 % to 1.5 %
		Mineral Oil	FSSAI manual for oils and fats-28.0	Qualitative (>1%)
		Specific gravity	IS 548 (Part 1)	0.01 % to 1.5 %
		Saponification value	IS 548 (Part 1)	100 to 290
		Argemone oil	FSSAI instruction Manual (Part 2)	Qualitative (Absent/present)
		Insoluble impurities	IS 548 (Part 1)	0.01 % to 1.5 %
		Unsaponifiable matter	IS 548 (Part 1)	0.1 % to 8 %
		Peroxide value	IS 548 (Part 1)	(0.1 to 30)meq/1000 g
		Rancidity	FSSAI manual for oils and fats-38.2	Qualitative (Absent/present)
		Refractive index	IS 548 (Part 1)	1.30 to 1.69
		Bleachability index	ISO 17932	0.01 to 10
		Butylated Hydroxy anisole(BHA)	GCKL/QS/C/5.4/068 Issue No. 1, Issue Date:26/08/2017	25 mg/kg to 200 mg/kg

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		Tert-Butyl hydroquinone (TBHQ)	GCKL/QS/C/5.4/068 Issue No. 1, Issue Date:26/08/2017	25 mg/kg to 200 mg/kg
II.	MARINE/AQUACULTURE FOOD PRODUCTS			
1.	Prawn & Prawn Products, Fish & Fish Products, Shrimps Artemia & Artemia Products, Oyster, Crab & Crab Products, Meat & Meat Products	Sorbic acid	GCKL/QS/C/5.4/078 Issue No. 1, Issue Date:22/01/2018	25 mg/kg to 250 mg/kg
Benzoic acid		GCKL/QS/C/5.4/078 Issue No. 1, Issue Date:22/01/2018	25 mg/kg to 250 mg/kg	
Butylated Hydroxy anisole(BHA)		GCKL/QS/C/5.4/068 Issue No. 1, Issue Date:26/08/2017	25 mg/kg to 200 mg/kg	
		Tert-Butyl hydroquinone (TBHQ)	GCKL/QS/C/5.4/068 Issue No. 1, Issue Date:26/08/2017	25mg/kg to 200 mg/kg
		Butylated Hydroxy Toluene(BHT)	GCKL/QS/C/5.4/068 Issue No. 1, Issue Date:26/08/2017	25 mg/kg to 200 mg/kg
		Histamine	GCKL/QS/C/5.4/007 Issue No. 1, Issue Date:04/01/2016	10 mg/kg to 2000mg/kg
		Indole	GCKL/QS/C/5.4/018 Issue No. 1, Issue Date:04/01/2016	40µg/kg to 2000µg/kg
		Total Volatile Base Nitrogen (TVBN)	EC 2071/2005 Chapter III, Page No 338/37	5mg/100g to 200 mg/100g
		Trimethyl Amine Nitrogen (TMA-N)	AOAC 971.14	0.5 mg/100g to 200 mg/100g
		Salt as NaCl	AOAC 937.09	0.1 % to 25 %

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		Moisture	GCKL/QS/C/5.4/020 Issue No. 1, Issue Date:04/01/2016	0.1 % to 95 %
		Total Fat	GCKL/QS/C/5.4/015 Issue No. 1, Issue Date:04/01/2016	0.1 % to 20 %
		Acid insoluble Ash	GCKL/QS/C/5.4/008 Issue No. 1, Issue Date:04/01/2016	0.01 % to 15 %
		Protein	GCKL/QS/C/5.4/010 Issue No. 1, Issue Date:04/01/2016	0.1 % to 85 %
		Sulphite	AOAC 990.28	10 mg/kg to 500 mg/kg
		Citric acid	GCKL/QS/C/5.4/044 Issue No. 1, Issue Date:04/01/2016	0.5mg/kg to 10000mg/kg
		Total Phosphate as P ₂ O ₅	AOAC 20 th Ed, 995.11, 2016	0.05 g/100g to 10 g/100g
		Formaldehyde	GCKL/QS/C/5.4/017 Issue No. 1, Issue Date:04/01/2016	0.5mg/100 g to 100 mg/100 g
2.	Fish & Fishery Product (Raw & Processed Shrimps, Fish, Squid, Octopus, Cuttlefish, Clam Meat, Crab Meat and Their Products, Cooked/Blanched Shrimps, Cooked Squid Rings & Tentacles, Pasteurized Crab	Total plate count	BAM	≥10 cfu/g
			AOAC	≥ 10 cfu/g
		Yeast&Mould	IS 5403	≥ 10 cfu/g
		Total coliforms	BAM	≥ 10 cfu/g
			BAM	(3 MPN to 1100 MPN)/g
			AOAC	≥ 10 cfu/g
		Faecal coliforms	BAM	(3 MPN to 1100 MPN)/g
		E. coli	BAM	≥ 10 cfu/g
			BAM	(3 MPN to 1100 MPN)/g
			AOAC	≥ 10 cfu/g
		ISO 16649(Part 2)	≥ 10 cfu/g	
		ISO 16649(Part 3)	(0 MPN to 110 MPN)/g	

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	Meat, Cooked Octopus, Clam Meat	Staphylococcus aureus	BAM	≥10 cfu/g
			AOAC	≥ 10 cfu/g
			ISO 6888 (Part1)	≥ 10 cfu/g
		Salmonella	BAM	Qualitative (Absent/Present)/25g
			ISO 6579 (Part 1)	Qualitative (Absent/Present)/25g
			AOAC	Qualitative (Absent/Present)/25g
		Vibrio cholerae	BAM	Qualitative (Absent/Present)/25g
			ISO 21872(Part 1)	Qualitative (Absent/Present)/25g
		Vibrio parahaemolyticus	BAM	(3 MPN to 1100 MPN)/g
			ISO 21872(Part 1)	Qualitative (Absent/Present)/25g
		Vibrio vulnificus	BAM	(3 MPN to 1100 MPN)/g
			ISO 21872(Part 1)	Qualitative (Absent/Present)/25g
		Bacillus cereus	BAM	≥ 100 cfu/g
		Shigella	BAM	(Absent/Present)/25g
		Listeria monocytogenes	BAM	(Absent/Present)/25g
Enterobacteriaceae	IS 7402	≥ 10 cfu/g		
	AOAC	≥ 10 cfu/g		
Clostridium perfringens	BAM	≥ 10 cfu/g		
Pseudomonas sps	IS 14843	≥ 100 cfu/g		
Faecal streptococci	IS 5887 (Part 2)	(3 MPN to 1100 MPN)/g		
III.	ANIMAL FOOD AND FEED			
1.	Animal Feeds and Feeding Stuffs	Moisture	IS 7874 (Part 1)	1 % to 25 %
		Crude protein	IS 7874 (Part 1)	5 % to 90 %
		Crude fat	IS 7874 (Part 1)	0.1 % to 25 %

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		Total ash	IS 7874 (Part 1)	0.1 % to 40 %
		Acid insoluble ash	IS 7874 (Part 1)	0.1 % to 21 %
		Ammoniacal nitrogen	IS 7874 (Part 1)	0.1 % to 15 %
		Sodium chloride	IS 7874 (Part II)	0.1% to 10 %
2.	Pet Foods Feeds and Feeding Stuffs	Ethoxyquin	AOAC 996.13	0.5mg/kg to 300 mg/kg
		Aflatoxins	GCKL/QS/C/5.4/073	
		B1	Issue No. 1, Issue Date:22/01/2018	1.2 µg/kg to 100 µg/kg
		B2		1.2 µg/kg to 100 µg/kg
		G1		1.2 µg/kg to 100 µg/kg
		G2		1.2 µg/kg to 100 µg/kg
IV.	RESIDUES IN FOOD PRODUCTS			
1.	Thermally Processed Fruit Nectars/Fruit Beverages/Fruit Drinks/Fruit Juice/Ready to Serve Fruit Beverages/ Jam/Jelly	Heavy metals	GCKL/QS/C/5.4/079	
		Cadmium	Issue No. 1, Issue Date:22/01/2018	0.2mg/kg to 10 mg/kg
		Lead		0.2mg/kg to 10 mg/kg
		Arsenic		0.1mg/kg to 10 mg/kg
		Mercury		0.04mg/kg to 1 mg/kg
		Copper		0.2mg/kg to 200 mg/kg
		Tin		0.2mg/kg to 500 mg/kg
		Zinc		0.2mg/kg to 200 mg/kg
2.	Dehydrated Vegetables	Heavy metals	GCKL/QS/C/5.4/006	
		Cadmium	Issue No. 1, Issue Date:04/01/2016	0.5mg/kg to 10 mg/kg
		Lead		0.5mg/kg to 10 mg/kg
		Arsenic		0.2mg/kg to 10 mg/kg
		Mercury		0.2mg/kg to 10 mg/kg
		Copper		0.5mg/kg to 200 mg/kg
		Tin		0.5mg/kg to 500 mg/kg
	Zinc		0.5mg/kg to 200 mg/kg	
3.	Cereals and Cereal Products	Heavy metals	GCKL/QS/C/5.4/006	
		Cadmium	Issue No. 1, Issue Date:04/01/2016	0.5mg/kg to 10 mg/kg
		Lead		0.5mg/kg to 10 mg/kg
		Arsenic		0.2mg/kg to 10 mg/kg

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		Mercury		0.2mg/kg to 10 mg/kg
		Copper		0.5mg/kg to 200 mg/kg
		Tin		0.5mg/kg to 500 mg/kg
		Zinc		0.5mg/kg to 200 mg/kg
4.	Cocoa Powder	Cadmium	GCKL/QS/C/5.4/006 Issue No. 1, Issue Date:04/01/2016	0.5mg/kg to 10 mg/kg
		Lead		0.5mg/kg to 10 mg/kg
		Arsenic		0.2mg/kg to 10 mg/kg
		Mercury		0.2mg/kg to 10 mg/kg
		Copper		0.5mg/kg to 200 mg/kg
		Tin		0.5mg/kg to 500 mg/kg
		Zinc		0.5mg/kg to 200 mg/kg
5.	Milk and Ice Cream	Cadmium	GCKL/QS/C/5.4/079 Issue No. 1, Issue Date:22/01/2018	0.2mg/kg to 10 mg/kg
		Lead		0.2 mg/kg to 10 mg/kg
		Arsenic		0.04mg/kg to 10 mg/kg
		Mercury		0.04mg/kg to 1 mg/kg
		Copper		0.2mg/kg to 200 mg/kg
		Tin		0.2mg/kg to 500 mg/kg
		Zinc		0.2mg/kg to 200 mg/kg
6.	Nuts & Nut Products, Spices, Oils, Oil Seeds & Bi-Products	Aflatoxins	GCKL/QS/C/5.4/069 Issue No. 1, Issue Date:13/09/2017	
		B1		0.5µg/kg to 100 µg/kg
		B2		0.5µg/kg to 100 µg/kg
		G1		0.5µg/kg to 100 µg/kg
		G2		0.5µg/kg to 100 µg/kg
7.	Tea	Heavy metals	GCKL/QS/C/5.4/006 Issue No. 1, Issue Date:04/01/2016	
		Cadmium		0.1 mg/kg to 10 mg/kg
		Mercury		0.1mg/kg to 100 mg/kg
		Arsenic		0.2mg/kg to 10 mg/kg
		Lead		0.2mg/kg to 100 mg/kg
		Copper		0.2mg/kg to 100 mg/kg
		Chromium		0.2mg/kg to 100 mg/kg
		Zinc		0.2mg/kg to 100 mg/kg
		Iron		0.2mg/kg to 250 mg/kg
		Nickel		0.2mg/kg to 250 mg/kg

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8.	Herbs, Spices & Condiments	Heavy metals	GCKL/QS/C/5.4/006	
		Cadmium	Issue No. 1, Issue Date:04/01/2016	0.1 t mg/kg to 10 mg/kg
		Mercury		0.1 mg/kg to 100 mg/kg
		Arsenic		0.2 mg/kg to 10 mg/kg
		Lead		0.2 mg/kg to 100 mg/kg
		Copper		0.2mg/kg to 100 mg/kg
		Chromium		0.2 mg/kg to 100 mg/kg
		Zinc		0.2 mg/kg to 100 mg/kg
9.	Marine/Aquaculture Food Products Prawn & Prawn Products, Shrimps	Nickel		0.2 mg/kg to 250 mg/kg
		Dyes	GCKL/QS/C/5.4/080	
		Malachite Green	Issue No. 1, Issue Date:12/02/2018	0.5 µg/kg to 10 µg/kg
		Leuco malachite green		0.5 µg/kg to 10 µg/kg
		Crystal violet		0.5 µg/kg to 10 µg/kg
10.	Prawn & Prawn Products, Fish & Fish Products, Shrimps Artemia & Artemia Products, Oyster, Crab & Crab Products, Meat & Meat Products	Leuco Crystal violet		0.5µg/kg to 10 µg/kg
		Trimethoprim	GCKL/QS/C/5.4/001	25µg/kg to 1000 µg/kg
		Sulfonamides	GCKL/QS/C/5.4/001	
		Sulfamethoxy pyridazine	Issue No. 1, Issue Date:04/01/2016	2.5 µg/kg to 1000 µg/kg
		sulfachloropyridazine	Issue No. 1, Issue Date:04/01/2016	2.5 µg/kg to 1000 µg/kg
		Sulfamethoxazole		2.5 µg/kg to 500 µg/kg
		Sulfamethizole		2.5µg/kg to 500 µg/kg
		Sulfadimidin/ Sulfamethazin		2.5 µg/kg to 500 µg/kg
		Sulfamerazine		2.5µg/kg to 500 µg/kg
		Sulfathiazole		2.5µg/kg to 500 µg/kg
		Sulfadiazin		2.5µg/kg to 500 µg/kg
		Sulfaguanidine		2.5 µg/kg to 500 µg/kg
		Sulfapyridine		2.5 µg/kg to 500 µg/kg
		Sulfadimethoxine		2.5 µg/kg to 500 µg/kg
		Tetracyclines	GCKL/QS/C/5.4/001	
Tetracycline	Issue No. 1, Issue Date:04/01/2016	10µg/kg to 1000 µg/kg		
4-Epitetracycline		10µg/kg to 1000 µg/kg		

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		Oxytetracycline		10 µg/kg to 1000 µg/kg
		4-Epioxytetracycline		10 µg/kg to 1000 µg/kg
		Chlortetracycline		10µg/kg to 1000 µg/kg
		4-Epichlortetracycline		10 µg/kg to 1000 µg/kg
		Quinolones		
		Ciprofloxacin		10 µg/kg to 1000 µg/kg
		Enrofloxacin		10 µg/kg to 1000 µg/kg
		Sarafloxacin		10 µg/kg to 1000 µg/kg
		Flumequine		10 µg/kg to 1000 µg/kg
		Oxolinic acid		25 µg/kg to 1000 µg/kg
		Sulfonamides	GCKL/QS/C/5.4/022	
		Sulfamethoxazole	Issue No. 1, Issue Date:04/01/2016	2.5 µg/kg to 500 µg/kg
		Sulfamethizole		2.5 µg/kg to 500 µg/kg
		Sulfadimidin/Sulfamethazin		2.5µg/kg to 500 µg/kg
		Sulfamerazine		2.5µg/kg to 500 µg/kg
		Sulfathiazole		2.5µg/kg to 500 µg/kg
		Sulfadiazine		2.5 µg/kg to 500 µg/kg
		Sulfaguanidine		2.5µg/kg to 500 µg/kg
		Sulfapyridine		2.5µg/kg to 500 µg/kg
		Sulfadimethoxine		2.5µg/kg to 500 µg/kg
		Trimethoprim	GCKL/QS/C/5.4/021 Issue No. 1, Issue Date:04/01/2016	25µg/kg to 1000 µg/kg
		Quinolones	GCKL/QS/C/5.4/021	
		Ciprofloxacin	Issue No. 1, Issue Date:04/01/2016	10 µg/kg to 1000 µg/kg
		Enrofloxacin		10µg/kg to 1000 µg/kg
		Oxolinic acid		25µg/kg to 1000 µg/kg
		Tetracyclines		
		Tetracycline		10 µg/kg to 1000 µg/kg
		4-Epitetracycline		10 µg/kg to 1000 µg/kg
		Oxytetracycline		10 µg/kg to 1000 µg/kg
		4-Epi oxytetracycline		10 µg/kg to 1000 µg/kg
		Chlortetracycline		10 µg/kg to 1000 µg/kg
		4-Epi chlortetracycline		10 µg/kg to 1000 µg/kg

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		Chloramphenicol	GCKL/QS/C/5.4/002 Issue No. 1, Issue Date:04/01/2016	0.10 µg/kg to 2 µg/kg
		Nitrofurans Metabolites	GCKL/QS/C/5.4/003	
		3-Amino-2 Oxazolidinone (AOZ)	Issue No. 1, Issue Date:04/01/2016	0.35µg/kg to 3 µg/kg
		3-Amino-5-orpholinomethyl-2-oxazolidinone (AMOZ)		0.35 µg/kg to 3 µg/kg
		1-Aminohydantoin (AHD)		0.35 µg/kg to 3 µg/kg
		Semicarbazide (SEM)		0.35 µg/kg to 3 µg/kg
		Nitrofurans Parent Compounds	GCKL/QS/C/5.4/004 Issue No. 1, Issue Date:04/01/2016	
		Nitrofurazone		0.5 µg/kg to 10 µg/kg
		Furaltadone		0.5 µg/kg to 10 µg/kg
		Nitrofurantoin		0.5 µg/kg to 10 µg/kg
		Furazolidone		0.5 µg/kg to 10 µg/kg
		Ethoxyquin	GCKL/QS/C/5.4/074 Issue No. 1, Issue Date:13/09/2017	10 µg/kg to 1000 µg/kg
		Heavy metals	GCKL/QS/C/5.4/005	
		Mercury	Issue No. 1, Issue Date:04/01/2016	0.1mg/kg to 100 mg/kg
		Cadmium		0.02 mg/kg to 100mg/kg
		Arsenic		0.2mg/kg to 100 mg/kg
		Lead		0.06 mg/kg to 100 mg/kg