

Laboratory Export Inspection Agency – Kochi Laboratory, 27/1767 A, Shipyard Quarters Road, Panampilly Nagar (South), Kochi, Kerala

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6164 (in lieu of T-1217, T-1216) **Page 1 of 29**

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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.	Fish & Fishery Products (Fresh, Frozen, dried and Chilled)	Total Plate Count/Total viable count/ Petrifilm Aerobic Count Plate/ QMAFAnM	FDA-BAM 2001, Chapter-3	≥10 cfu / g
			AOAC 2016, 20th Edn. Ch.17, p.12, 990.12	≥10 cfu / g
			ISO 4833 (Part-1): 2013	≥10 cfu / g
		Escherichia coli/ Petrifilm E.coli Count Plate	FDA-BAM 2002, Chapter-4	≥10 cfu / g
			AOAC 2016, 20th Edn. Ch.17, p.36, 991.14	<3 to 1100 MPN/ g
		Staphylococcus aureus (Coagulase +ve) / Petrifilm Staphylococcus aureus count Plate	FDA-BAM 2001, Chapter-12	≥10 cfu / g
			AOAC 2016, 20th Ed. Ch.17, p.104, 2001.05	≥10 cfu / g
			ISO 6888:1999 (Reaffirmed 2015)	≥10 cfu / g
		Total Coliforms	FDA-BAM 2002, Chapter-4	<3 to 1100 MPN/ g, Present/Absent/ 0.001g
		Feacal Coliforms	FDA-BAM 2002, Chapter-4	<3 to 1100 MPN/ g
		Feacal Streptococci	IS: 5887(1976); Part –2 (RA 2009)	≥10 cfu / g
		Salmonella spp./ Salmonella spp./ VIDAS Salmonella (SLM) Assay	FDA-BAM 2007, Chapter-5	Present/Absent/25g
			AOAC 2016, 20th Edn. Ch.17, p.158, 996.08	
Vibrio cholerae	FDA-BAM 2004, Chapter-9	Present/ Absent/25g		
	ISO 21872-1:2007			
Vibrio parahaemolyticus	FDA-BAM 2004, Chapter-9	Present/Absent/25g		
	ISO 21872-1:2007			
Vibrio vulnificus	FDA-BAM 2004, Chapter-9	Present/Absent/25g		
	ISO 21872-2:2007			

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		Vibrio mimicus	FDA-BAM 2004, Chapter-9	Present/Absent/25g
			ISO 21872-2:2007	
		Vibrio alginolyticus	FDA-BAM 2004, Chapter-9	Present/Absent/25g
		Yeast & Mould count/ Petrifilm Yeast & Mould Count Plate	FDA-BAM 2004, Chapter-18	≥10 cfu / g
			AOAC2016, 20 th Edn.Ch.17, p19, 997.02	≥10 cfu / g
		Enterobacteriaceae	ISO 21528-2:2004 (RA 2016)	≥10 cfu / g
		Listeria monocytogens/ VIDAS Listeria monocytogens II(LM02)	FDA-BAM 2003, Chapter-10	Present/Absent/25g
			AOAC 2016, 20 th Edn. Ch.17, p.278, 2004.02	
		Sulphite Reducing Clostridium	ISO15213:2003	Present / Absent/50g
		Bacterial Inhibitors / Antimicrobial substances by Four Plate Method	EIA/Kochi/Lab/Micro/13, Issue No:03, date: 31.07.2017, Revision :00	Positive /Negative
2.	Fish meal (Animal feed)	Escherichia coli/	FDA-BAM 2002, Chapter-4	≥10 cfu / g; <3 to 1100 MPN/ g
		Petrifilm E.coli Count Plate	AOAC 2016, 20 th Edn. Ch.17, p.36, 991.14	≥10 cfu / g
		Staphylococcus aureus (Coagulase +ve) / Petrifilm Staphylococcus aureus count Plate	FDA-BAM 2001, Chapter-12	≥10 cfu / g
			AOAC 2016, 20 th Ed. Ch.17, p.104, 2001.05	≥10 cfu / g
			ISO 6888:1999 (RA 2015)	≥10 cfu / g
		Total Coliforms	FDA-BAM 2002, Chapter-4	<3 to 1100 MPN/ g
				≥10 cfu / g
		Enterobacteriaceae	ISO 21528-2:2004 (RA 2016)	≥10 cfu / g
		Salmonella spp./ VIDAS Salmonella (SLM) Assay	FDA-BAM 2007, Chapter-5	Present/Absent/25g
			AOAC 2016, 20 th Edn. Ch.17, p.163, 996.08	

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			ISO 6579-1:2017	
		Vibrio Cholerae	FDA-BAM 2004, Chapter-9	Present/ Absent/25g
			ISO 21872-1:2007	
		Vibrio parahaemolyticus	FDA-BAM 2004, Chapter-9	Present/Absent/25g
			ISO 21872-1:2007	
3.	Poultry meat & poultry meat products (Fresh, Frozen, dried and Chilled)	Total Plate Count	FDA-BAM 2001, Chapter-3	≥10 cfu / g
		Petrifilm Aerobic Count Plate	AOAC 2016, 20th Edn. Ch.17, p.12, 990.12	≥10 cfu / g
		Escherichia coli	FDA-BAM 2002, Chapter-4	<3 to 1100 MPN/ g
				≥10 cfu / g
		Petrifilm E.coli Count Plate	AOAC 2016, 20th Edn. Ch.17, p.36, 991.14	≥10 cfu / g
		Staphylococcus aureus (Coagulase +ve)/	FDA-BAM 2001, Chapter-12	≥10 cfu / g
		Petrifilm Staphylococcus aureus count Plate	AOAC 2016, 20th Ed. Ch.17, p.104, 2001.05	≥10 cfu / g
			ISO 6888:1999 (RA 2015)	≥10 cfu / g
		Total Coliforms	FDA-BAM 2002, Chapter-4	<3 to 1100 MPN/ g
				≥10 cfu / g
		Salmonella spp.	FDA-BAM 2007, Chapter-5	Present/Absent/25g
		Salmonella spp./ VIDAS	AOAC 2016, 20th Edn. Ch.17, p.163, 996.08	
		Salmonella (SLM) Assay	ISO 6579-1:2017	
		Vibrio cholerae	FDA-BAM 2004, Chapter-9	Present/Absent/25g
			ISO 21872-1:2007	
		Vibrio parahaemolyticus	FDA-BAM 2004, Chapter-9	Present/Absent/25g
			ISO 21872-1:2007	
		Listeria monocytogens/ VIDAS Listeria monocytogens II(LM02)	FDA-BAM 2003, Chapter-10	Present/Absent/25g
			AOAC 2016, 20th Edn. Ch.17, p.278, 2004.02	
		Sulphite Reducing Clostridium	ISO15213:2003	Present / Absent/50g

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Bacterial Inhibitors / Antimicrobial substances by Four Plate Method	EIA/Kochi/Lab/Micro/13, Issue No:03, date: 31.07.2017, Revision :00	Positive /Negative
4.	Meat & Meat Products (Fresh, Frozen, dried and Chilled)	Total Plate Count	FDA-BAM 2001, Chapter-3 AOAC 2016, 20th Edn. Ch.17, p.12, 990.12	≥10 cfu / g ≥10 cfu / g
Escherichia coli/ Petrifilm E.coli Count Plate		FDA-BAM 2002, Chapter-4 AOAC 2016, 20th Edn. Ch.17, p.36, 991.14	≥10 cfu / g ≥10 cfu / g	
Staphylococcus aureus (Coagulase +ve)/ Petrifilm Staphylococcus aureus count Plate		FDA-BAM 2001, Chapter-12 AOAC 2016, 20th Ed. Ch.17, p.104, 2001.05	≥10 cfu / g ≥10 cfu / g	
Total Coliforms		ISO 6888:1999 (RA 2015) FDA-BAM 2002, Chapter-4	≥10 cfu / g <3 to 1100 MPN/ g ≥10 cfu / g	
Salmonella spp./ VIDAS Salmonella (SLM) Assay		FDA-BAM 2007, Chapter-5 AOAC 2016, 20th Edn. Ch.17, p.163, 996.08 ISO 6579-1:2017	Present/Absent/25g	
Vibrio Cholerae		FDA-BAM 2004, Chapter-9 ISO 21872-1:2007	Present/ Absent/25g	
Vibrio parahaemolyticus		FDA-BAM 2004, Chapter-9 ISO 21872-1:2007	Present/Absent/25g	
Listeria monocytogenes/ Listeria monocytogens/ VIDAS Listeria monocytogens II(LM02)		FDA-BAM 2003, Chapter-10 AOAC 2016, 20th Edn. Ch.17, p.278, 2004.02	Present/Absent/25g	
Sulphite Reducing Clostridium		ISO15213:2003	Present / Absent/50g	

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5.	Milk & Dairy Products	Bacterial Inhibitors / Antimicrobial substances by Four Plate Method	EIA/Kochi/Lab/Micro/13, Issue No:03, date: 31.07.2017, Revision:00	Positive /Negative
		Total Plate Count	FDA-BAM 2001, Chapter-3	≥10 cfu / g
		Total Coliform	FDA-BAM 2002, Chapter-4	≥10 cfu / g; <3 to 1100 MPN/ g
		Salmonella spp./ Salmonella spp./ VIDAS Salmonella (SLM) Assay	FDA-BAM 2001, Chapter-12 AOAC 2016, 20th Edn. Ch.17, p.163, 996.08 ISO 6579-1:2017	Present/Absent/25g
		Escherichia coli/ Petrifilm E.coli Count Plate	FDA-BAM 2002, Chapter-4 AOAC 2016, 20th Edn. Ch.17, p.36, 991.14	<3 to 1100 MPN/ g ≥10 cfu / g
		Staphylococcus aureus (Coagulase +ve)/	FDA-BAM 200, Chapter-12 ISO 6888:1999 (RA 2015)	≥10 cfu / g; ≥10 cfu / g;
		Yeast & Mould count/ Petrifilm Yeast & Mould count Plate	FDA-BAM 2001, Chapter-18 AOAC2016, 20 th Edn.Ch.17, p19, 997.02	≥10 cfu / g; ≥10 cfu / g
		Listeria monocytogenes/ VIDAS Listeria monocytogens II(LM02)	FDA-BAM 2003, Chapter-10 AOAC 2016, 20th Edn. Ch.17, p.278, 2004.02	Present/Absent/25g
6.	Salt	Staphylococcus aureus (Coagulase +ve)	FDA-BAM 200, Chapter-12 ISO 6888:1999 (RA 2015)	≥10 cfu / g ≥10 cfu / g
		Sulphite Reducing Clostridium	ISO15213:2003	Present / Absent/50g
		7.	Eggs & Egg Product	Total Plate Count
Staphylococcus aureus (Coagulase +ve)	FDA-BAM 200, Chapter-12 ISO 6888:1999 (RA 2015)			≥10 cfu / g ≥10 cfu / g
Total Coliforms	FDA-BAM 2002, Chapter-4			<3 to 1100 MPN/ g ≥10 cfu / g

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		Enterobacteriaceae	ISO 21528-2:2004 (RA 2016) IS/ISO 7402-1993 (RA 2007)	≥10 cfu / g
		Salmonella spp./ Salmonella spp./ VIDAS Salmonella (SLM) Assay	FDA-BAM 2007, Chapter-5 AOAC 2016, 20th Edn. Ch.17, p.163, 996.08 ISO 6579-1:2017	Present/Absent/25g
		Yeast & Mould count/ Petrifilm Yeast & Mould Count Plate	FDA-BAM 2001, Chapter-18 AOAC2016, 20 th Edn.Ch.17, p19, 997.02	≥10 cfu / g ≥10 cfu / g
8.	Spices & condiments (Ground, Whole & Blended)	Total Plate Count/ Petrifilm Aerobic Count Plate	FDA-BAM 2001, Chapter-3 AOAC 2016, 20th Edn. Ch.17, p.12, 990.12	≥10 cfu / g ≥10 cfu / g
		Escherichia coli	FDA-BAM 2002, Chapter-4	≥10 cfu / g <3 to 1100 MPN/ g
		Petrifilm E.coli Count Plate	AOAC 2016, 20th Edn. Ch.17, p.36, 991.14	≥10 cfu / g
		Total Coliforms	FDA-BAM 2002, Chapter-4	<3 to 1100 MPN/ g ≥10 cfu / g
		Salmonella spp. Salmonella spp. VIDAS Salmonella (SLM) Assay	FDA-BAM 2007, Chapter-5 AOAC 2016, 20th Edn. Ch.17, p.158, 996.08 ISO 6579-1:2017	Present/Absent/25g
		Staphylococcus aureus (Coagulase +ve) Petrifilm Staphylococcus aureus count Plate	FDA-BAM 2001, Chapter-12 AOAC 2016, 20th Ed. Ch.17, p.104, 2001.05 ISO 6888:1999 (RA 2015)	≥10 cfu / g ≥10 cfu / g ≥10 cfu / g
		Clostridium perfringenes	FDA-BAM 2001, Chapter-16	≥10 cfu / g
			FDA-BAM 2001, Chapter-18	≥10 cfu / g

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		Yeast & Mould count/ Petrifilm Yeast & Mould count Plate	AOAC2016, 20 th Edn.Ch.17, p19, 997.02	≥10 cfu / g
9.	Tea & Coffee	Total Plate Count	FDA-BAM 2001, Chapter-3	≥10 cfu / g
		Salmonella spp./ Salmonella spp. VIDAS Salmonella (SLM) Assay	FDA-BAM 2007, Chapter-5 AOAC 2016, 20 th Edn. Ch.17, p.163, 996.08 ISO 6579-1:2017	Present/Absent/25g
		Yeast & Mould count/ Petrifilm Yeast & Mould count Plate	FDA-BAM 2001, Chapter-18	≥10 cfu / g
			AOAC2016, 20 th Edn.Ch.17, p19, 997.02	≥10 cfu / g
10.	Fruits & Vegetables & Ready to Serve Beverages, Synthetic syrup for use in Dispersion for carbonated waters	Total Plate Count	FDA-BAM 2001, Chapter-3	≥10 cfu / g
		Total Coliforms	FDA-BAM 2002, Chapter-4	<3 to 1100 MPN/ g
		Flat sour organisms	FDA-BAM 2001, Chapter-21	≥10 cfu / g
		Staphylococcus aureus (Coagulase +ve)	FDA-BAM 2001, Chapter-12 ISO 6888:1999 (RA 2015)	≥10 cfu / g
		Salmonella spp. Salmonella spp./ Salmonella spp. VIDAS Salmonella (SLM) Assay	FDA-BAM 2007, Chapter-5 AOAC 2016, 20 th Edn. Ch.17, p.163, 996.08 996.08; ISO 6579-1:2017	Present/Absent/25g
		Petrifilm E.coli Count Plate	FDA-BAM 2002, Chapter-4	<3 to 1100 MPN/ g
			AOAC 2016, 20 th Edn. Ch.17, p.36, 991.14	≥10 cfu / g
		Vibrio cholerae	FDA-BAM 2004, Chapter-9 ISO 21872-1:2007	Present/ Absent/25g
			FDA-BAM 2001, Chapter-18	≥10 cfu / g

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		Yeast & Mould count/ Petrifilm Yeast & Mould count Plate	AOAC2016, 20 th Edn.Ch.17, p19, 997.02	≥10 cfu / g
11.	Nuts & Nuts Products (including dry fruits)	Total Plate Count	FDA-BAM 2001, Chapter-3	≥10 cfu / g
		Escherichia coli PetrifilmE.coli Count Plate	FDA-BAM 2002, Chapter-4	≥10 cfu / g
				<3 to 1100 MPN/ g
			AOAC 2016, 20th Edn. Ch.17, p.36, 991.14	≥10 cfu / g
		Staphylococcus aureus (Coagulase +ve)	FDA-BAM 2001, Chapter-12	≥10 cfu / g
			ISO 6888:1999 (RA 2015)	≥10 cfu / g
		Total Coliforms	FDA-BAM 2002, Chapter-4	<3 to 1100 MPN/ g
				≥10 cfu / g
12.	Cereals and Pulses (Ground /whole)	Yeast & Mould count/ Petrifilm Yeast & Mould count Plate	FDA-BAM 2001, Chapter-18	≥10 cfu / g
			AOAC2016, 20 th Edn.Ch.17, p19, 997.02	≥10 cfu / g
		Salmonella spp./ Salmonella spp. VIDAS Salmonella (SLM) Assay	FDA-BAM 2007, Chapter-5	Present/Absent/25g
			AOAC 2016, 20th Edn. Ch.17, p.163, 996.08	
			ISO 6579-1:2017	
		Clostridium perfringens	FDA-BAM 2001, Chapter-16	≥10 cfu / g
		Total Plate Count	FDA-BAM 2001, Chapter-3	≥10 cfu / g
Escherichia coli/ PetrifilmE.coli Count Plate	FDA-BAM 2002, Chapter-4		≥10 cfu / g	
			<3 to 1100 MPN/ g	
	AOAC 2016, 20th Edn. Ch.17, p.36, 991.14		≥10 cfu / g	
Staphylococcus aureus (Coagulase +ve)	FDA-BAM 2001, Chapter-12		≥10 cfu / g	
	ISO 6888:1999 (RA 2015)	≥10 cfu / g		
Total Coliforms	FDA-BAM 2002, Chapter-4	<3 to 1100 MPN/ g		
		≥10 cfu / g		

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		Yeast & Mould count/ Petrifilm Yeast & Mould count Plate	FDA-BAM 2001, Chapter-18 AOAC2016, 20 th Edn.Ch.17, p19, 997.02	≥ 10 cfu / g ≥10 cfu / g
		Salmonella spp./ Salmonella spp. VIDAS Salmonella (SLM) Assay	FDA-BAM 2007, Chapter-5 AOAC 2016, 20th Edn. Ch.17, p.163, 996.08	Present/Absent/25g
13.	Raw, Cooked/ Processed Food Products (fruits and vegetable products, Ready to eat foods	Total Plate Count / Petrifilm Aerobic Count Plate	FDA-BAM 2001, Chapter-3 AOAC 2016, 20th Edn. Ch.17, p.12, 990.12	≥10 cfu / g ≥10 cfu / g
		Yeast & Mould count/ Petrifilm Yeast & Mould count Plate	FDA-BAM 2001, Chapter-18 AOAC2016, 20 th Edn.Ch.17, p19, 997.02	≥10 cfu / g ≥10 cfu / g
		Total Coliforms	FDA-BAM 2002, Chapter-4	<3 to 1100 MPN/ g ≥10 cfu / g
		Salmonella spp./ Salmonella spp. VIDAS Salmonella (SLM) Assay	FDA-BAM 2007, Chapter-5 AOAC 2016, 20th Edn. Ch.17, p.163, 996.08 ISO 6579-1:2017	Present/Absent/25g
		Staphylococcus aureus (Coagulase +ve) / Petrifilm Staphylococcus aureus count Plate	FDA-BAM 2001, Chapter-12 AOAC 2016, 20th Ed. Ch.17, p.104, 2001.05 ISO 6888:1999 (RA 2015)	≥10 cfu / g ≥10 cfu / g ≥10 cfu / g
		Clostridium perfringens	FDA-BAM 2001, Chapter-16	≥10 cfu / g
		Fecal Coliforms	FDA-BAM 2002, Chapter-4	<3 to 1100 MPN/ g
		Fecal Streptococci	IS: 5887(1976); Part –2 (RA 2009)	≥ 10 cfu / g
		Thermophilic Bacteria	FDA-BAM 2002, Chapter-21A	Present/Absent/25g
II.	MOLECULAR ANALYSIS			
1.	Soya & soya	Targeted Screening of	EIA/Kochi/Lab/SOP/	Detected/ Not detected

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	derived, Rice & rice derived, Maize & maize derived, Wheat & wheat derived products, Rape seed & its meal, Spices (including pepper), Guar korma meal, Cumin seeds, Coriander, Ground nut & ground nut meal; Fruit pulp	Genetically Modified Organism (GMO); (CAMV 35S Promoter & NOS Terminator)	Micro/GMO/34 Issue No.: 01; Date: 28/06/2013	LOD at 0.1%
2.	Shrimps (Fresh, Frozen, Dried and Chilled)	White Spot Syndrome Virus (WSSV)	EIA/Kochi/Lab/SOP/ Micro/WSSV/29 Issue No.: 01; Date: 28/06/2013	Detected/ Not detected In 200mg
		Yellow Head Virus (YHV)	EIA/Kochi/Lab/SOP/ Micro/YHV/30 Issue No.: 01; Date: 28/06/2013	Detected/Not detected In 200mg
		Taura Syndrome virus (TSV)	EIA/Kochi/Lab/SOP/ Micro/TSV/31 Issue No.: 01; Date: 28/06/2013	Detected/Not detected In 200mg
		Infectious Hypodermal & hematopoietic necrosis Virus (IHHNV)	EIA/Kochi/Lab/SOP/ Micro/IHHNV/37 Issue No.: 01; Date: 06/01/2014	Detected/Not detected In 200mg
		Infectious Myonecrosis Virus (IMNV)	EIA/Kochi/Lab/SOP/ Micro/IMNV/38 Issue No.: 01; Date: 06/01/2014	Detected/Not detected In 200mg

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		Acute Hepatopancreatic Necrosis Disease (AHPND) OR Early Mortality Syndrome (EMS)	EIA/Kochi/Lab/SOP/ Micro/AHPND/40 Issue No.: 01; Date: 16/01/2017	Detected/Not detected In 200mg
III.	WATER			
1.	Water (Processed Food Industry, Potable and Drinking)	Total Plate Count	APHA 22nd Edition; 9215 B	≥1cfu/ml
		Total Coliforms	APHA 22nd Edition; 9221 B	<1.8 to 1600 MPN/ 100ml
		Fecal Coliforms	APHA 22nd Edition; 9221 F	<1.8 to 1600 MPN/ 100ml
		E. coli	APHA 22nd Edition; 9221 F	<1.8 to 1600 MPN/ 100ml
		Salmonella spp.	APHA 22nd Edition; 9260 B	Present/Absent/100ml
		Fecal Streptococci/ Enterococci	APHA 22nd Edition; 9230 B	<1.8 to 1600 MPN/ 100ml
		Vibrio cholerae	APHA 22nd Edition; 9260 H	Present/Absent/100ml
		Sulphite Reducing Clostridium / Clostridium perfringens	IS: 13428 (2005) Reaffirmed 2014	<1.8 to 1600 MPN/ 100ml
		Proteolytic Organism	IS 4251-1967 Reaffirmed 2009	>1cfu/ml
		Lipolytic Organism	IS 4251-1967 Reaffirmed 2009	>1cfu/ml
		Pseudomonas aeruginosa	APHA 22nd Edition; 9213 F	<1.8 to 1600 MPN/ 100ml
		Vibrio parahaemolyticus	FDA-BAM 2004, Chapter-9	Present/Absent/ 100 & 250 ml

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CHEMICAL TESTING

1.	Marine / Aqua culture Food Products			
1.	Fish & Fishery Products (Fresh, frozen, dried & chilled)	Metal Residues		
		Cadmium	AOAC, 20th Ed 2016; Ch-09, 9.01.09; 999.11	0.15 mg/kg to 1.0 mg/kg
		Lead	AOAC, 20th Ed 2016; Ch-09, 9.02.17; 972.23	0.3 mg/kg to 1.5 mg/kg
		Mercury	AOAC, 20th Ed 2016; Ch-09, 9.02.23; 977.15	0.5 mg/kg to 10 mg/kg

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		Arsenic	AOAC, 20th Ed 2016; Ch-09, 9.01.01; 986.15	0.2 mg/kg to 100 mg /kg
		Pesticides Residues		
		Organo Chlorine Pesticides Aldrin, Dieldrin, p p' DDT o p' DDT p p' DDE p p' TDE (DDD) expressed as DDT Dicofol (sum of p,p' isomers and o,p' isomers) Endrin, Alpha Endosulphan, (isomers), Beta Endosulphan Endosulphan Sulphate expressed as endosulphan HCH-alpha HCH-beta HCH-gamma (Lindane) Heptachlor Heptachlor Epoxide	AOAC, 20th Ed 2016; Ch-10, 10.1.04, 2007.01 / GC-ECD	0.001mg/kg to 0.5mg/kg
		Antibiotic Residues		
		Chloramphenicol	EIA/Kochi/Lab/SOP/ Chem/97 Issue No:2 dt;10.05.2012	0.15 µg/kg to 5.0 µg/kg
		Nitrofurantoin Metabolites AMOZ, AOZ, SEM, AHD	EIA/Kochi/Lab/SOP/ Chem/98 Issue No: 01dt: 09.06.2010	0.25 µg/kg to 5.0 µg/kg 0.25 µg/kg to 5.0 µg/kg 0.25 µg/kg to 5.0 µg/kg 0.25 µg/kg to 5.0 µg/kg

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		Tetracyclines Oxytetracycline, Tetracycline and its 4 epi tetracycline Chlortetracycline and 4 epi Chlortetracycline Oxytetracycline and 4 epi Oxytetracycline Doxycycline	EIA/Kochi/Lab/SOP/ Chem/123 Issue No: 01dt:11.07.2015	25 µg/kg to 200 µg/kg
		Sulphonamides Sulphadimidine Sulphanilamide Sulphadiazine Sulphathiazole Sulphamethazine Sulphamethiazole Sulphamethoxy Pyridazine Sulphadoxin Sulphadimethoxin Sulfamerazine Sulphachloropyridazine Sulfapyridine Trimethoprim	EIA/Kochi/Lab/SOP/ Chem/123 Issue No: 01dt:11.07.2015	25 µg/kg to 200 µg/kg
		Quinolones Oxolinic acid Nalidixic Acid Flumequine Ciprofloxacin Enrofloxacin	EIA/Kochi/Lab/SOP/ Chem/121 Issue No: 03 dt:05.07.2012	25 µg/kg to 200 µg/kg
		Nitroimidazoles Metronidazole (MNZ) Dimetridazole (DMZ) Ronidazole (RNZ) Ipronidazole (IPOH)	EIA/Kochi/Lab/SOP/ Chem/97 Issue No: 02 dt:10.05.2015	0.25 µg/kg to 5.0 µg/kg 0.25 µg/kg to 5.0 µg/kg 0.25 µg/kg to 5.0 µg/kg 0.25 µg/kg to 5.0 µg/kg

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		Food Additives		
		Sulphite as SO ₂	AOAC, 20 th Ed, 2016; Ch.-47; 47.3.39; 962.16	10 mg/kg to 100 mg/kg
		Phosphate as P ₂ O ₅	AOAC, 20 th Ed, 2016; Ch-45; 45.1.33; 995.11	500mg/kg to 6000mg/kg
		Ethoxyquin	EIA/Kochi/Lab/SOP/ Chem/101 Issue No: 02 dt: 05.07.2013	5 µg/kg to 100ug/ kg
		Pendimethalin	EIA/Kochi/Lab/SOP/ Chem/101 Issue No: 02 dt:05.07.2013	5 µg/kg to 100ug/ kg
		Dyes		
		Malachite green	EIA/Kochi/Lab/SOP/ Chem/121 Issue No: 01 dt:23.07.2015	0.5 µg/kg to 5 µg/kg
		Leuco Malachite green	EIA/Kochi/Lab/SOP/ Chem/121 Issue No: 01 dt:23.07.2015	0.5 µg/kg to 5 µg/kg
		Crystal Violet	EIA/Kochi/Lab/SOP/ Chem/12 Issue No: 01 dt:23.07.2015	0.5 µg/kg to 5 µg/kg
		Leuco Crystal Violet	EIA/Kochi/Lab/SOP/ Chem/121 Issue No: 01 dt:23.07.2015	0.5 µg/kg to 5 µg/kg
		Aflatoxin		
		B1	EIA/Kochi/Lab/SOP/ Chem/100 Issue No: 03 dt:05.07.2012	1.0 µg/kg to 50µg/kg
		B2		1.0 µg/kg to 50µg/kg
2.	Fish & Fishery Products	Spoilage Indicators		
		Total Volatile Base Nitrogen (TVBN) as N	EIA/Kochi/Lab/SOP/ Chem/08 Issue No: 03 dt:07.01.2016	5 mg/100 g to 35mg/100 g

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		Trimethyl amine (TMA) as N	EIA/Kochi/Lab/SOP/ Chem/08 Issue No: 02 dt:28.10.2008	5 mg/100 g to 35mg/100g
		Histamine	EIA/Kochi/Lab/SOP/ Chem/87 Issue No: 03 dt:05.07.2012	25 mg/kg to 500 mg/kg
3.	Dry Fish	Moisture	IS: 14950: 2001	1 mg/100 g to 35g/ 100g
		Acid insoluble ash	IS: 14950: 2001	0.01 g/ 100g to 2.0g/ 100g
4.	Canned Fish	Acidity in Brine	FSSAI manual 2016 Meat & Meat Products and Fish & Fish products	0.1 g/100g to 10g/100g
II.	FOOD & AGRICULTURAL PRODUCTS			
1.		Pesticides Residues		

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Chloramphenicol	EIA/Kochi/Lab/SOP/ Chem/125 Issue No:01dtd.;20.06.2016	0.15 µg/kg to 5.0 µg/kg
		Nitrofurans Metabolites AMOZ, AOZ, SEM, AHD	EIA/Kochi/Lab/SOP/ Chem/124 Issue No: 01dtd:20.06.2016	0.2 µg/kg to 5.0 µg/kg 0.2 µg/kg to 5.0 µg/kg 0.2 µg/kg to 5.0 µg/kg 0.2 µg/kg to 5.0 µg/kg
		Antibacterial substances Amoxicillin Ampicillin Colistin Neomycin B Spectinomycin	EIA/Kochi/Lab/SOP/ Chem/128 Issue No: 01 dtd:24.06.2016	5 µg/kg to 50 µg/kg 5 µg/kg to 50 µg/kg 100 µg/kg to 500 µg/kg 250 µg/kg to 1000 µg/kg 5 µg/kg to 50 µg/kg
		Lasalocid A	EIA/Kochi/Lab/SOP/ Chem/129 Issue No: 01 dtd:20.06.2016	50 µg/kg to 300 µg/kg
		Piperazine	EIA/Kochi/Lab/SOP/ Chem/130 Issue No: 01 dtd:12.07.2016	500 µg/kg to 3000 µg/kg

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Tetracyclines Tetracycline and its 4 epi tetracycline Chlortetracycline and 4 epi Chlortetracycline Oxytetracycline and 4 epi oxytetracycline Doxycycline Enrofloxacin Ciprofloxacin Erythromycin A Lincomycin Tiamulin Tylosin A Flubendazole (sum of flubendazole and (2-amino 1H benzimidazol-5-yl) (4 fluorophenyl) methanone)	EIA/Kochi/Lab/SOP/ Chem/127 Issue No: 01 dtd:24.06.2016	50 µg/kg to 500 µg/kg 50 µg/kg to 500 µg/kg 50 µg/kg to 500 µg/kg 5 µg/kg to 50 µg/kg 5 µg/kg to 50 µg/kg 5 µg/kg to 50 µg/kg 50 µg/kg to 300 µg/kg 10 µg/kg to 200 µg/kg 500 µg/kg to 2000 µg/kg 25 µg/kg to 300 µg/kg 100 µg/kg to 1000 µg/kg
		Sulphonamides Sulphadimidine Sulphanilamide Sulphadiazine Sulphathiazole Sulphamethazine Sulphamethiazole Sulphamethoxy Pyridazine Sulphadoxin Sulphadimethoxin Sulfamerazine Sulphachloropyridazine Sulfapyridine Trimethoprim	EIA/Kochi/Lab/SOP/ Chem/127 Issue No: 01 dtd:24.06.2016	5 µg/kg to 50 µg/kg

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Quinolones Oxolinic acid Ciprofloxacin Enrofloxacin	EIA/Kochi/Lab/SOP/ Chem/127 Issue No: 01 dtd:24.06.2016	5 µg/kg to 50.0 µg/kg 5 µg/kg to 50 µg/kg 5 µg/kg to 50 µg/kg
		Nitroimidazoles Metronidazole (MNZ) Dimetridazole (DMZ) Ronidazole (RNZ) Ipronidazole (IPOH)	EIA/Kochi/Lab/SOP/ Chem/133 Issue No: 01 dtd:24.06.2016	0.25 µg/kg to 2.0 µg/kg 0.25 µg/kg to 2.0 µg/kg 0.25 µg/kg to 2.0 µg/kg 0.25 µg/kg to 2.0 µg/kg
2.	Spices & condiments (whole)	General Quality Parameters		
		Light Berries/ light seeds	USFDA/ASTA's clean spices Manual Page No: 5-6	0.01 g/100g to 5g/100g
		Insect infested/ Moldy Berries/ Insect damaged matter/ damaged, discolored fruit, pinhead or broken berries, Defective seed (fennel)	FSSAI Manual 2016- Spices & condiments, Visual test	0.01 g/100g to 5g/100g
		Live/Dead Insects	EIA/Kochi/Lab/SOP/ Chem/11 Issue No: 01 dt:28.10.2008	0.01 Count to 10 Count
		Excreta mammalian	EIA/Kochi/Lab/SOP/ Chem/12 Issue No: 01 dt:28.10.2008	0.1 mg/454g to 0.2 10 mg/454g
		Excreta other than Mammalian	EIA/Kochi/Lab/SOP/ Chem/13 Issue No: 01 dt:28.10.2008	0.01 mg/454g to 10 mg/454g
		Light Filth	AOAC, 20 th Ed, 2016; Ch.-16, 16.14.23; 972.40	0 Count to 500 Count
		Heavy filth	AOAC, 20 th Ed, 2016; Ch.-16, 16.14.24; 972.58	0.01 g/100g to 5g/100g
		Extraneous matter (Sifting & picking)	EIA/Kochi/Lab/SOP/ Chem/16 Issue No: 01 dt:28.10.2008	0.01 g/100g to 1.0g/100g

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Empty & Malformed capsules by count (Cardamom) Unripe and marked fruit (Chilli) Broken fruit seed & fragment Tendril, mother clove, Khokar clove, Headless cloves, Split fruit (coriander) Edible seed other than fennel seeds	FSSAI Manual 2016- Spices & condiments, Visual test	0.01 g/ 100g to 50g/ 100g
3.	Spices & condiments (whole/ ground & masala mixes)	Moisture	AOAC, 20 th Ed, 2016; Ch-43; 43.1.04; 986.21	0.1 g/100g to 15g/100g
Total Ash		AOAC, 20 th Ed, 2016; Ch-43; 43.1.05; 941.12	0.01 g/100g to 10g/100g	
Acid Insoluble Ash		AOAC, 20 th Ed, 2016; Ch-43; 43.1.05; 941.12	0.01 g/100g to 2g/100g	
Water Insoluble Ash		IS:1797; 1985 (RA 2009)	0.01 g/100g to 2g/100g	
Crude Fibre		AOAC, 20 th Ed, 2016; Ch-43; Ch-43; 43.1.12; 920.169	0.1 g/100g to 20 g/100g	
Volatile oil		AOAC, 20 th Ed, 2016; Ch-43 43.1.14; 962.17	0.5 g/100g to 6 g/100g	
Aflatoxin B1 B2 G1 G2		ASTA Analytical Manual, 4 th Edn.1997	1.0 µg/kg to 50 µg/kg 1.0 µg/kg to 50 µg/kg 1.0 µg/kg to 50 µg/kg 1.0 µg/kg to 50 µg/kg	
		Pesticides Residues		

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Organo Chlorine Pesticides Aldrin Dieldrin Endrin Endosulphan (isomers) DDT BHC (isomers) Hepta Chlor	AOAC, 20 th Ed, 201619 th Edn; Ch-10, 10.1.04, 2007.01	0.15 mg/kg to 0.5mg/kg
4.	Dried Whole Ginger (Spices)	Extraneous Matter	USFDA/ASTA's clean spices Manual Ch-3/ IS: 1797; 1985 (RA 2009), visual test	1 µg/kg to 100 µg/kg
		Additives: SO ₂ contents for bleached varieties	AOAC, 20 th Ed, 2016; Chapter-47; 47.3.39; 962.16	1 µg/kg to 100 µg/kg
5.	Tea/ Coffee and their products	Total Ash	IS: 13854: 1994 (Ref.1999)	0.1 g/100g to 10g/100g
		Water Soluble Ash	IS: 13855: 1993 (Ref.1998)	1 g/100g to 70 g/100g
		Acid Insoluble Ash	IS: 13857: 1993 (Ref.1998)	0.01 g/100g to 2 g/100g
		Alkalinity of Water Soluble ash	IS: 13856: 1993 (Ref.1998)	0.01 g/100g to g/100g
		Water Extract	IS: 13862: 1999	0.1 g/100g to 50 g/100g
		Crude Fibre	IS: 10226 (Part 1):1982 (Ref.2005)	0.1 g/100g to 25 g/100g
		Aflatoxin B1 B2 G1 G2	ASTA Analytical Manual, 4 th Edn.1997	2.5 µg/kg to 50 µg/kg 2.5 µg/kg to 50 µg/kg 2.5 µg/kg to 50 µg/kg 2.5 µg/kg to 50 µg/kg
		Caffeine (In case of Coffee, Tea)	EIA/Kochi/Lab/SOP/ Chem/122, Issue No.: 01, dt.: 18.02.13	0.5 g/ 100g to 10g/ 100g

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		Ochratoxin A	AOAC, 20 th Ed, 2016; Ch-49,49.6.02A, 2004.10	1 µg/kg to 50 µg/kg
		Metal Residues		
		Lead	AOAC, 20 th Ed, 2016; Ch-09, 9.01.09; 999.11	2 mg/kg to 10 mg/kg
		Copper	AOAC, 20 th Ed, 2016; Ch-09, 9.1.07; 971.20	2.5 mg/kg to 10 mg/kg
		Iron	AOAC, 20 th Ed, 2016; Ch-09, 9.01.09; 999.11	2.5 mg/kg to 10 mg/kg
		Zinc	AOAC, 20 th Ed, 2016; Ch-09, 9.01.09; 999.11	0.5 mg/kg to 3 mg/kg
		Cadmium	AOAC, 20 th Ed, 2016; Ch.09, 9.01.09; 999.11	0.5 mg/kg to 3 mg/kg
		Pesticides Residues		
		Organo Chlorine Pesticides Aldrin, Dieldrin, Endrin, Endosulphan (isomers), DDT, BHC (isomers), Heptachlor	AOAC, 20 th Ed, 2016; Ch-10, 10.1.04, 2007.01	0.15 mg/kg to 0.5mg/kg
6.	Cereals, pulses and their products (Wheat flour, Maida, Semolina, Besan, Barley powder, Corn flour, Corn flakes, custard powder, Macaroni products, malted milk food, malt based food, rolled	Moisture	AOAC, 20th Ed, 2016; Ch-32.1.03; 925.10 & Ch-32.1.05; 923.03	0.1 g/100g to 15 g/100g
		Acid insoluble ash		0.01 g/100g to 5 g/100g
		Total Ash		0.1 g/100g to 0.2 10 g/100g
		Crude fibre	AOAC, 20th Ed, 2016; Ch-32.1.13; 920.85	0.1 g/100g to 20 g/100g
		Protein	AOAC, 20th Ed, 2016; Ch-32.1.22; 920.87	0.1 g/100g to 20 g/100g
		Fat	AOAC, 20th Ed, 2016; Ch-32.1.14; 922.06	0.1 g/100g to 10.0g/100g
		Gluten	FSSAI Manual-2016, Cereals & Cereal Products (Sl. No. 8.4)	0.1 g/100g to 20g/100g

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	oats, Soya flour, ground nut flour, Sesame flour, coconut flour, Food grains)	Alcoholic acidity	FSSAI. Manual-2016, Cereals & Cereal Products (Sl. No. 8.5)	0.05% to 5%
7.	Food grains (Basmati Rice, Cereals, pulses and their products) & Nuts	Foreign matter	FSSAI. Manual-2016, Cereals & Cereal Products (Sl. No. 1.1 & 1.2) (visual)	0.0 g/100g to 10.0 g/100g
		Other edible grains		0.0 g/100g to 10.0 g/100g
		Damaged grains		0.0 g/100g to 10 g/100g
		Ochratoxin A	AOAC, 20 th Ed, 2016; Ch-49.49.6.02A, 2004.10	1 µg/kg to 50 µg/kg
		Aflatoxin B1	AOAC, 20 th Ed, 2016; Ch-49.2.18; 991.31	1.0 µg/kg to 50 µg/kg
		B2		1.0 µg/kg to 50 µg/kg
		G1		1.0 µg/kg to 50 µg/kg
		G2		1.0 µg/kg to 50 µg/kg
8.	Basmati Rice	Carbendazim (reported with Benomyl)	EIA/KOCHI/LAB/SOP/CHEM/107, Issue No.01, dt. : 07.03.2016	5 µg/kg to 100µg/kg
		Primiphos-methyl		5 µg/kg to 100µg/kg
		Imidacloprid		5 µg/kg to 100µg/kg
		Triazophos		5 µg/kg to 100µg/kg
		Buprofezin		5 µg/kg to 100µg/kg
		Tricyclazole		5 µg/kg to 100µg/kg
		Thiophanate methyl		5 µg/kg to 100µg/kg
		Isoprothiolane		1 µg/kg to 50 µg/kg
		Cyfluthrin		1 µg/kg to 50 µg/kg
		Flonicamid (Sum of Flonicamid and TFNA)		1 µg/kg to 50 µg/kg
		Metconazole		1 µg/kg to 50 µg/kg
		Prothioconazole		1 µg/kg to 50 µg/kg
		Tebufozide		1 µg/kg to 50 µg/kg
		Bifenthrin		1 µg/kg to 50 µg/kg
		Total Aflatoxin	EIA/KOCHI/LAB/SOP/	1 µg/kg to 5 µg/kg

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		Aflatoxin B1	CHEM/121, Issue No. 01, dt.:07.03.2016	1 µg/kg to 5 µg/kg
		Aflatoxin B2		1 µg/kg to 5 µg/kg
		Aflatoxin G1		1 µg/kg to 5 µg/kg
		Aflatoxin G2		1 µg/kg to 5 µg/kg
9.	Bakery & Confectionary products (Raw, Cooked/ Processed Food Products (like fruits and vegetable products, fruit beverages/ juices/ concentrates, Jam, juice, soups, sauce, pickles, biscuits) & ready to eat foods)	Acid Insoluble ash	FSSAI. Manual-2016, Cereals & Cereal Products (Sl. No. 8.7, 14.3, 14.4, 14.5, 16.2)	0.01 g/100g to 5 g/100g
		Acidity of extracted fat		0.01 g/100g to 5.0 g/100g
		Moisture		0.01 g/100g to 10.0 g/100g
		Fat		0.01 g/100g to 10 g/100g 10 g/100g to 50 g/100g
		Ash		0.1 g/100g to 25 g/100g
		Protein		0.1 g/100g to 5 g/100g
		Sodium Chloride/ Salt (Brine)		0.5 g/100g to 20g/100g
		pH		01 to 10
	Total soluble solids	AOAC, 20th Ed, 2016; Ch.37.1.12, 920.151	0.1 g/100g to 50g/ 100g 50 / 100g to 80/ 100g	
	Acidity (Titratable)	AOAC, 20th Ed, 2016; Ch.37.1.37, 942.15	0.001 g/100g to 5g/100g	
10.	Milk Products	Moisture	IS: 11623:2008	0.05 g/100g to 8 g/100g
		Titratable Acidity	IS: 1165:2002 Annex B (RA 2009)	0.01 g/100g to 3 g/100g
		Total Ash	IS: 1165:2002 Annex A (RA 2009)	0.1 g/100g to 0.2 10 g/100g
11.	Common Salt	Purity	IS: 797:1982 (Reff.2012)	10 g/100g to 100 g/100g
12.	Edible oils (Vegetable refined & crude)	Refractive Index	IS:548 (Part-1) 1964 (RA 2010)	1.33 to 1.80
		Saponification value		50 to 300
		Iodine Value		10 to 250
		Unsaponifiable matter		0.01 g/100g to 3g/100g
		Acid value		0.1 g/100g to 5g/100g

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
13.	Fish Oil	Argemone oil	IS:548 (Part-2) 1976	Positive/ Negative
		Mineral Oil	(RA 2010)	Positive/ Negative
		Moisture	IS:548 (Part-1) 1964 (RA 2010)	0.1 g/100g to 10g/100g
		Anisidine value	ISO 6885: 2006 E	1 to 60
		Impurities	IS:548 (Part-1) 1964 (RA 2010)	0.01 g/100g to 10g/100g
		FFA/ Acid Value		0.1 g/100g to 5g/100g
		Peroxide value		0.1 meq/ Kg to 20meq/ Kg
		Unsaponifiable matter		0.01 g/100g to 3g/100g
		Iodine Value	10 to 250	
		Ethoxyquin	AOAC, 20th Ed, 2016; Ch-4; 4.10.03; 996.13	25 mg/kg to 500mg/ Kg
III.	ANIMAL FOOD & FEEDS			
1.	Fish Meal	Ethoxyquin	AOAC, 20 th Ed, 2016; Ch-4; 4.10.03; 996.13	25 mg/kg to 500mg/ Kg
		Moisture	IS 548 Part-1: 1964	0.1 g/100g to 10g/100g
		Protein (crude)	IS7874 Part-1:1975 (RA1990)	1 g/100g to 90g/100g
		Fat	IS 7874 Part-1: 1975 (RA1990)	0.05 g/100g to 50g/100g
		Total Ash	IS 7874 Part-1: 1975 (RA 1990)	1.0 g/100g to 25g/100g
		Sand/ Silica	IS 7874 Part-1: 1975 (RA1990)	0.1 g/100g to 5.0g/100g
		Salt	EIA/Kochi/Lab/SOP/ Chem/103 Issue No: 01 dt:05.07.2012	0.1 g/100g to 5.0g/100g
		Cadmium	AOAC 20 th Ed, 2016; Ch-09, 9.01.09; 999.11	0.6 mg/kg to 2.0 mg/kg
		Lead	AOAC 20 th Ed, 2016; Ch-09, 9.02.17; 972.23	0.7 mg/kg to 5.0 mg/kg
		Mercury	AOAC 20 th Ed, 2016; Ch-09, 9.02.23; 977.15	0.3 mg/kg to 10 mg/kg

Laboratory **Export Inspection Agency – Kochi Laboratory, 27/1767 A, Shipyard Quarters Road, Panampilly Nagar (South), Kochi, Kerala**

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Arsenic	AOAC 20 th Ed, 2016; Ch-09, 9.01.01; 986.15	0.2 mg/kg to 100 mg /kg
		Histamine	EIA/Kochi/Lab/SOP/ Chem/87 Issue No: 03 dt:05.07.2012	50 mg/kg to 500 mg/kg
		Total Volatile Base Nitrogen (TVBN) as N	EIA/Kochi/Lab/SOP/ Chem/109 Issue No: 01 dt:05.07.2012	1 mg/100 g to 150 mg/100 g
2.	Fish Oil	Moisture	IS548 (Part-1): 1964 (RA 2010)	0.1 g/100g to 10g/100g
		Anisidine value	ISO: 6885, 2006 E	1 to 60
		Impurities	IS 548 (Part-1):1964 (RA 2010)	0.01 g/100g to 10g/100g
		FFA/ Acid Value		0.1 g/100g to 5g/100g
		Peroxide value		0.1 meq/ Kg to 20meq/ Kg
		Unsaponifiable matter		0.01 g/100g to 3g/100g
		Iodine Value		10 to 250
		Ethoxyquin	AOAC, 20 th Ed, 2016; Ch-4; 4.10.03; 996.13	25 mg/kg to 500mg/ Kg
IV.	WATER			
1.	Water (used in food processing industry)	Colour	APHA 22 nd Edn.2012; Ch 2.6 (2120B)	3 Pt Co unit to 250 Pt Co unit
		Turbidity	APHA 22 nd Edn.2012; Ch 2.13 (2130B)	10 NTU to 1000 NTU
		Total solids	IS: 3025 (Part 16) 1984 (RA 2006)	10 mg/l to 1000 mg/l
		pH	IS: 3025 (Part 11) 1983 (RA 2006)	0.1 to 10
		Nitrate as N	APHA 22 nd Edn.2012; Ch 4-122(4500 NO ₃ B) with HACH Kit	0.2 mg/l to 10.2 mg/l

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Manganese	APHA 22nd Edn.2012; Ch 3.9 /3.18 (3030 E)	0.2 mg/l to 1 mg/l
		Copper	APHA 22nd Edn.2012; Ch 3.9 /3.18 (3120B)	2.0 mg/l to 10 mg/l
		Zinc	APHA 22nd Edn.2012; Ch 3.9 /3.18 (3120B)	0.1 mg/l to 3 mg/l
		Fluoride	APHA 22nd Edn.2012; Ch 4.87 (4500 F D) with HACH Kit	0.02 mg/l to 2 mg/l
		Chloride	IS: 3025 (Part 32) 1988 (RA 2007)	0.1 mg/l to 250 mg/l
		Sulphate	IS: 3025 (Part 24) 1986 (RA 2009)	4 mg/l to 250 mg/l
		Magnesium	IS: 3025 (Part 46) 1994 (RA 2003)	1 mg/l to 100 mg/l
		Total Hardness	IS: 3025 (Part 21): 2009	1 mg/l to 600 mg/l
		Arsenic	APHA 22nd Edn.2012; Ch 3.34 (3114 B)	3 µg/l to 100 µg/l
		Cadmium	APHA 22nd Edn.2012; Ch 3.9 /3.18 (3030 E / 3111 B)	0.1 mg/l to 3 mg/l
		Cyanide	APHA 22 nd Edn. 2012; Ch 4.44 (4500-E colorimetric) with HACH Kit	0.002 mg/l to 0.240mg/l
		Chromium	APHA 22nd Edn.2012; Ch 3.9 /3.18 (3030 E / 3111 B)	0.1 mg/l to 1.2 mg/l
		Mercury	APHA 22nd Edn.2012; Ch 3.22 /3.23 (3112 B)	50 µg/l to 200 µg/l
		Lead	APHA 22nd Edn.2012; Ch 3.9 /3.18 (3030 E / 3111 B)	0.1 mg/l to 2 mg/l
		Nickel	APHA 22nd Edn.2012; Ch 3.9 /3.18 (3030 E / 3111 B)	0.1 mg/l to 1.2 mg/l

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Iron	APHA 22nd Edn.2012; Ch 3.9 / 3.18 (3030 E / 3111 B)	2 mg/l to 10 mg/l
		Selenium	APHA 22nd Edn.2012; Ch 3.34 (3114 B)	0.03 mg/l to 1.0 mg/l
		Phenolic substances	IS: 3025 (Part-43) 1992 (RA 2003)	0.001 mg/l to 0.02 mg/l
		Oxidisability	IS: 3025 (Part-58) 2006	1 mg/l to 5mg/l

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