

Laboratory Jubilant Pharma and Chemical Lab (OPC) Pvt. Ltd., Surya Gayatri, Plot No. D-14/15, Sector No. 6, New Panvel, Maharashtra

Accreditation Standard ISO/IEC 17025: 2017

Certificate Number TC-7330

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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 & AGRICULTURE PRODUCTS				
1.	Fish & Sea Foods Frozen raw fish	Total Plate count	FSSAI Lab Manual 2017 Chapter 1 page no.1-5	≥10 cfu/g
		E. coli	FSSAI Lab Manual 2017 Chapter 1. Page no.14-20	Present/Absent per g
		Staphylococcus aureus (Coagulase +ve)	FSSAI Lab Manual 2017 Chapter 1. Page no.39-43	Present/Absent per g
		Total Coliforms	FSSAI Lab Manual 2017 Chapter 1. Page no.14-20	≥10 cfu/g
		Yeast & mould	FSSAI Lab Manual 2017 Chapter 1. Page no.50-52	≥10 cfu/g
2.	Poultry & Poultry Products. Chicken chilly cold cuts	Total Plate count	FSSAI Lab Manual 2017 Chapter 1 page no.1-5	≥10 cfu/g
		E. coli	FSSAI Lab Manual 2017 Chapter 1. Page no.14-20	Present/Absent per g
		Staphylococcus aureus (Coagulase +ve)	FSSAI Lab Manual 2017 Chapter 1. Page no.39-43	Present/Absent per g
		Total Coliforms	FSSAI Lab Manual 2017 Chapter 1. Page no.14-20.	≥10 cfu/g/ml
		Yeast & mould	FSSAI Lab Manual 2017 Chapter 1. Page no.50-52	≥10 cfu/g
3.	Meat & Meat Products, Meat	Total Plate count	FSSAI Lab Manual 2017 Chapter 1 page no.1-5	≥10 cfu/g
		E. coli	FSSAI Lab Manual 2017 Chapter 1. Page no.14-20	Present/Absent per g
		Staphylococcus aureus (Coagulase +ve)	FSSAI Lab Manual 2017 Chapter 1. Page no.39-43	Present/Absent per g
		Total Coliforms	FSSAI Lab Manual 2017 Chapter 1. Page no.14-20	≥10 cfu/g
		Yeast & mould	FSSAI Lab Manual 2017 Chapter 1. Page no.50-52	≥10 cfu/g

Suman Kharayat
Convenor

Jitendra B. Vispute
Program Manager

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4.	Milk & Dairy Products Milk Powder, Chach, Dahi, Lassi	Total Plate count	FSSAI Lab Manual 2017 Chapter 1 page no.1-5	≥10 cfu/g
		E. coli	FSSAI Lab Manual 2017 Chapter 1. Page no.14-20	Present/Absent per g
		Total Coliforms	FSSAI Lab Manual 2017 Chapter 1. Page no.14-20	≥10 cfu/g
		Yeast & mould	FSSAI Lab Manual 2017 Chapter 1. Page no.50-52	≥10 cfu/g
		Staphylococcus aureus (Coagulase +ve)	FSSAI Lab Manual 2017 Chapter 1. Page no.39-43	Present/Absent/g
5.	Herbs, Spices & Condiments (Ground, Whole & Blended) Mutton Masala	Total Plate count	FSSAI Lab Manual 2017 Chapter 1 page no.1-5	≥10 cfu/g
		E. coli	FSSAI Lab Manual 2017 Chapter 1. Page no.14-20	Present/Absent per g
		Staphylococcus aureus (Coagulase +ve)	FSSAI Lab Manual 2017 Chapter 1. Page no.39-43	Present/Absent per g
		Total Coliforms	FSSAI Lab Manual 2017 Chapter 1. Page no.14-20	≥10 cfu/g
		Yeast & mould	FSSAI Lab Manual 2017 Chapter 1. Page no.50-52	≥10 cfu/g
6.	Nut & Nuts Products, Crushed peanuts	Total Plate count	FSSAI Lab Manual 2017 Chapter 1 page no.1-5	≥10 cfu/g
		E. coli	FSSAI Lab Manual 2017 Chapter 1. Page no.14-20	Present/Absent per g
		Staphylococcus aureus (Coagulase +ve)	FSSAI Lab Manual 2017 Chapter 1. Page no.39-43	Present/Absent per g
		Total Coliforms	FSSAI Lab Manual 2017 Chapter 1. Page no.14-20	≥10 cfu/g
		Yeast & mould	FSSAI Lab Manual 2017 Chapter 1. Page no.50-52	≥10 cfu/g
7.	Cereals & Pulses Besan	Total Coliforms	FSSAI Lab Manual 2017 Chapter 1. Page no.14-20	≥10 cfu/g
		E. coli	FSSAI Lab Manual 2017 Chapter 1. Page no.14-20	Present/Absent per g

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8.	Fruit & Fruit Products Frozen Lychee pulp, Green peas, Frozen Strawberry	Staphylococcus aureus (Coagulase +ve)	FSSAI Lab Manual 2017 Chapter 1. Page no.39-43	Present/Absent per g
		Yeast & mould	FSSAI Lab Manual 2017 Chapter 1. Page no.50-52	≥10 cfu/g
		Total Plate count	FSSAI Lab Manual 2017 Chapter 1 page no.1-5	≥10 cfu/g
		Total Coliforms	FSSAI Lab Manual 2017 Chapter 1 page no.1-5	≥10 cfu/g
		E. coli	FSSAI Lab Manual 2017 Chapter 1. Page no.14-20	≥10 cfu/g
9.	Bakery Products, Cookies	E. coli	FSSAI Lab Manual 2017 Chapter 1. Page no.14-20	Present/Absent per g
		Staphylococcus aureus (Coagulase +ve)	FSSAI Lab Manual 2017 Chapter 1. Page no.39-43	Present/Absent per g
		Yeast & mould	FSSAI Lab Manual 2017 Chapter 1. Page no.50-52	≥10 cfu/g
		Total Coliforms	FSSAI Lab Manual 2017 Chapter 1. Page no.14-20	≥10 cfu/g
		Staphylococcus aureus (Coagulase +ve)	FSSAI Lab Manual 2017 Chapter 1. Page no.39-43	Present/Absent per g
10.	Vegetable & Vegetable Products Tomato paste	Staphylococcus aureus (Coagulase +ve)	FSSAI Lab Manual 2017 Chapter 1. Page no.39-43	Present/Absent/g
		Total Coliforms	FSSAI Lab Manual 2017 Chapter 1. Page no.14-20	≥10 cfu/g
		Yeast & mould count	FSSAI Lab Manual 2017 Chapter 1. Page no.50-52	≥10 cfu/g
		Total Plate count	FSSAI Lab Manual 2017 Chapter 1 page no.1-5	≥10 cfu/g
		E. coli	FSSAI Lab Manual 2017 Chapter 1. Page no.14-20	Present/Absent per g

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		Total Plate count	FSSAI Lab Manual 2017 Chapter 1 page no.1-5	≥10 cfu/g
II.	DRUGS & PHARMACEUTICAL PRODUCTS			
1.	Water for Injection	Endotoxins	IP 2018 Vol I.2.2.3	Passes/Fail
		Sterility	IP 2018 Vol I.2.2.11	Passes/Fail
2.	Talcum Powder Ambroxol Hydrochloride	Total Bacterial Count	IP 2018 Vol I.2.2.9	≥1 cfu/g
		Total Fungal Count	IP 2018 Vol I.2.2.9	≥1 cfu/g
		Escherichia coli	IP 2018 Vol I.2.2.9	Present/Absent per/g
		Staphylococcus aureus	IP 2018 Vol I.2.2.9	Present/Absent per/g
		Salmonella spp.	IP 2018 Vol I.2.2.9	Present/Absent per/10 g
		Pseudomonas aeruginosa	IP 2018 Vol I.2.2.9	Present/Absent per/gm
		Baile tolerant gram negative bacteria	IP 2018 Vol I.2.2.9	Present/Absent per/10 g
		Candida albicans	IP 2018 Vol I.2.2.9	Present/Absent per/g
3.	Sterility Test Paclitaxel Inj. IP, Filgrastim 300mcg/ml, Prefilled syringe, Levocarnitine Inj., Dextrose Inj., Oxaplatin Inj., Water for Injection	Membrane Filtration Method	IP 2018 Vol I.2.2.11	Passes/Fail
III.	WATER			
1.	Drinking Water	Total Bacterial Count	IP 2018 Vol. I.2.2.9 or 22 nd Eddition APHA (9215.A & B) 2012	≥10 cfu/ml
		Total Fungal Count	IP 2018 Vol. I.2.2.9	≥10 cfu/ml
		E. coli	IP 2018 Vol. I.2.2.9 or 22 nd Eddition APHA (9221.F) 2012	Present/Absent per/ml

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2.	Packaged Drinking Water	Staphylococcus aureus	IP 2018 Vol. I.2.2.9	Present/Absent per/ml
		Salmonella Spp	IP 2018 Vol. I.2.2.9	Present/Absent per/10ml
		Pseudomonas aeruginosa	IP 2018 Vol. I.2.2.9	Present/Absent per/ml
		Bile Tolerant gram-Negative bacteria	IP 2018 Vol. I.2.9 or 22 nd Edition APHA (9222.B) 2012	Present/Absent per/10ml Present/Absent per/100ml
		Candida albicans	IP 2018 Vol. I.2.2.9	Present/Absent per/ml
		Total Bacterial Count	IP 2018 Vol. I.2.2.9	≥10 cfu/ml
		Total Fungal Count	IP 2018 Vol. I.2.2.9	≥10 cfu/ml
		Escherichia coli	IP 2018 Vol. I.2.2.9	Present/Absent per/ml
		Staphylococcus aureus	IP 2018 Vol. I.2.2.9	Present/Absent per/ml
		Salmonella spp	IP 2018 Vol. I.2.2.9	Present/Absent per/10ml
3.	Purified Water	Pseudomonas aeruginosa	IP 2018 Vol. I.2.2.9	Present/Absent per/ml
		Bile tolerant gram-negative bacteria	IP 2018 Vol. I.2.2.9	Present/Absent per/10ml
		Candida albicans	IP 2018 Vol. I.2.2.9	Present/Absent per/ml
		Total Bacterial Count	IP 2018 Vol. I.2.2.9	≥1 cfu/ml
		Total Fungal Count	IP 2018 Vol. I.2.2.9	≥1 cfu/ml
		Escherichia coli	IP 2018 Vol. I.2.2.9	Present/Absent per/ml
		Staphylococcus aureus	IP 2018 Vol. I.2.2.9	Present/Absent per/ml
		Salmonella spp	IP 2018 Vol. I.2.2.9	Present/Absent per/10ml
		Pseudomonas aeruginosa	IP 2018 Vol. I.2.2.9	Present/Absent per/ml
		Bile tolerant gram-negative bacteria	IP 2018 Vol. I.2.2.9	Present/Absent per/10ml
4.	Water for Processed food Industries	Candida albicans	IP 2018 Vol. I.2.2.9	Present/Absent per/ml
		Total Bacterial Count	IP 2018 Vol. I.2.2.9	≥1 cfu/ml
		Total Fungal Count	IP 2018 Vol. I.2.2.9	≥1 cfu/ml
		Escherichia coli	IP 2018 Vol. I.2.2.9	Present/Absent per/ml
		Staphylococcus aureus	IP 2018 Vol. I.2.2.9	Present/Absent per/ml
		Salmonella spp	IP 2018 Vol. I.2.2.9	Present/Absent per/10ml
		Pseudomonas aeruginosa	IP 2018 Vol. I.2.2.9	Present/Absent per/ml
		Bile tolerant gram-negative bacteria	IP 2018 Vol. I.2.2.9	Present/Absent per/10ml
Candida albicans	IP 2018 Vol. I.2.2.9	Present/Absent per/ml		

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CHEMICAL TESTING

I.	FOOD & AGRICULTURAL PRODUCTS				
1.	Animal Feeds, Feeding Stuffs and Food Products	Moisture	IS 7874 (Part 1) 1975 (RA 2006)	0.1 g/100 g to 30 g/100 g	
		Crude Protein	IS 7874 (Part 1) 1975 (RA 2006)	1 g/100 g to 50 g/100 g	
		Crude fat	IS 7874 (Part 1) 1975 (RA 2006)	1 g/100 g to 60 g/100 g	
		Crude Fibre	IS 7874 (Part 1) 1975 (RA 2006)	0.5 g/100 g to 30 g/100 g	
		Total ash	IS 7874 (Part 1) 1975 (R.A 2006)	0.1 g/100 g to 20 g/100 g	
		Acid insoluble ash	IS 7874 (Part 1) 1975 (RA 2006)	0.5 g/100 g to 5 g/100 g	
		Phosphorous	IS 7874 (Part 2) 1975 (RA 2004)	0.1 mg/kg to 50 mg/kg	
		Calcium	AOAC 985.01 (20 th Edition)	1 mg/kg to 1000 mg/kg	
		Salt as NaCl	IS 7874 (Part 2) 1975 (RA 2004)	0.5 g/100 g to 10 g/100 g	
		Naturally Occurring Toxins (NOTS)			
		Hyperciene	JPCLIN/ML-GUR/SOP-CHE-16, Issue date:22/09/2017	0.1 mg/kg to 10 mg/kg	
		Hydrocyanic Acid	AOAC 970.11,18th Edition	0.1 mg/kg to 10 mg/kg	
		Agaric Acid	JPCL/SOP/GL-Food/14 & 16 Issue date:25/09/2017	0.1 mg/kg to 10 mg/kg	
		Saffarol	JPCL/GUR/GL-TOL/11 Issue date:26/09/2017	0.1 mg/kg to 10 mg/kg	
		Aflatoxin B1	SOP/QC/51 Issue date:21/08/2017	Qualitative	

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		Aflatoxin B2	SOP/QC/51 Issue date:21/08/2017	Qualitative
		Aflatoxin G1	SOP/QC/51 Issue date:21/08/2017	Qualitative
		Aflatoxin G2	SOP/QC/51 Issue date:21/08/2017	Qualitative
2. 3.	Cereals & Pulses & Its Products	Moisture	IS 7874 (Part 1) 1975 (RA 2014)	1 g/100 g to 95 g/100 g
		Total ash	IS 7874 (Part 1) 1975 (RA 2014)	0.1 g/100 g to 20 g/100 g
		Acid insoluble ash	IS 7874 (Part 1) 1975 (RA 2014)	0.1 g/100 g to 5 g/100 g
		Total Solids	IS 3882-1966 (RA 2001)	5 g/100 g to 99 g/100 g
		Salt as NaCl	IS 2860-1964 (RA 2003)	0.1 g/100 g to 20 g/100 g
		Crude Fiber	GAFTA 2003 [10:0]	0.1 g/100 g to 30 g/100 g
		Water Insoluble Solids	IS 13845-2003	0.1 g/100 g to 90 g/100 g
		Total Sugar	AOAC Official Method 982.14 20 th Ed ⁿ	0.5 g/100 g to 80 g/100 g
		Description (Appearance, colour)	IS 5861-1993/ IS 4624-1978 (RA 2005)	Qualitative
		Extraneous matter	IS 4624-1978 (RA 2005)	Qualitative
		Bromate content	AOAC 956.03	0.5 mg/kg to 10 mg/kg
		Foreign matter	IS 12711:2012	Qualitative
		Added colouring matter	IS 12711:1989	Qualitative
		Food & Premix	Vitamin B1	AOAC SMPR 2015.002
	Vitamin B2		AOAC Int. 2016 20 th Edition	0.1 mg/kg to 100 mg/kg
	Vitamin B3		AOAC Int. 2016 20 th Edition	0.1 mg/kg to 100 mg/kg
	Vitamin B5		AOAC Int. 2016 20 th Edition	0.1 mg/kg to 100 mg/kg
	Vitamin B6		AOAC Int. 2016 20 th Edition	0.1 mg/kg to 100 mg/kg
	Vitamin B7		AOAC Int. 2016 20 th Edition	0.1 mg/kg to 100 mg/kg
	Vitamin B9		AOAC Int. 2016 20 th Edition	0.1 mg/kg to 100 mg/kg
	Vitamin B12		AOAC Int. 2016 20 th Edition	0.1 mg/kg to 100 mg/kg
		Vitamin D2	AOAC SMPR 2012.004 20 th Edition	0.1 mg/kg to 100 mg/kg

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4.	Oils And Fats & Their By Products	Vitamin D3	AOAC SMPR 2012.004 20 th Edition	0.1 mg/kg to 100 mg/kg
		Vitamin E	AOAC SMPR 2012.005	0.1 mg/kg to 100 mg/kg
		Vitamin C	AOAC NEW First Action 2012	0.1 mg/kg to 100 mg/kg
		Vitamin A	AOAC SMPR 2012.003	0.1 mg/kg to 100 mg/kg
		Moisture	AOCS Ca 2a-45, 6th Edition 2009/IS 548 (Part I) 1964 (RA 2010)	0.01 g/100 g to 5 g/100 g
		Moisture and volatile matter	AOCS Ca 2c-25, 6th Edition 2009	0.01 g/100 g to 5 g/100 g
		Acid value	FSSAI Manual 2018	0.01 to 20
		Free fatty acids	AOCS Ca 5a-40, 6th Edition 2009	0.01 to 10
		Unsaponifiable matter	AOCS Ca 6a-40, 6th Edition 2009	0.1 g/100 g to 10 g/100 g
		Specific gravity	AOCS Cc 10a-25, 6th Edition 2009	0.75 to 0.95
		Mass per unit volume	AOCS Cc 10c-95, 6th Edition 2009	0.75 to 0.95
		Iodine value (Wijs)	AOCS Cd 1-25, 6th Edition 2009	1 to 200
		Saponification value	AOCS Cd 3-25, 6th Edition 2009	80 to 300
		Peroxide value	AOCS Cd 8-53, 6th Edition 2009/IS 548 (Part 1) 1964 (RA 2010)	1 milli eq./kg to 25 milli eq./kg
Description	IS 10633:1999 (RA 2004)	Qualitative		
Slip Melting point	AOCS Cc 3-25, 6th Edition 2009	10 deg C to 80 deg C		
5.	Nuts And Nut Products	Moisture	AOAC 925.40,20th Edition/ IS 4684:1995 (RA 2005)	0.1 g/100 g to 30 g/100 g

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		Fat	AOAC 948.22, 20th Edition/IS 4684:1995 (RA 2005)	1 g/100 g to 70 g/100 g
		Protein	AOAC 950.48, 20th Edition/IS 4684:1995 (RA 2005)	0.1 g/100 g to 50 g/100 g
		Crude fiber	AOAC 935.53, 20th Edition/IS 4684:1995 (RA 2005)	0.1 g/100 g to 50 g/100 g
		Ash	AOAC 950.49, 20th Edition/IS 4684:1995 (RA 2005)	0.1 g/100 g to 10 g/100 g
		Acid Insoluble Ash	IS 4684:1995 (RA 2005) IS 4684:1995 (RA 2005)	0.01 g/100 g to 10g/100 g
6.	Milk & Dairy Product/Flavours And Infant Foods (Panner, Chesse, Skimmed Milk Powder, Ice Cream)	Moisture	IS 1806:1975 Appendix A	1 g/100 g to 90 g/100 g
		Total Protein	IS 1547:1968 Appendix B	1 g/100 g to 50 g/100 g
		Milk Fat	IS 1547:1968 Appendix C	0.1 g/100 g to 99 g/100 g
		Total Ash	IS 1547:1968 Appendix E	0.1 g/100 g to 10 g/100 g
		Acid insoluble ash	IS 1547:1968 Appendix F	0.01 g/100 g to 2 g/100 g
		Solid Non Fat	AOAC 990.21, 20th Edition	5 g/100 g to 15 g/100 g
		Added Sugar	IS 1479(Part 2) (RA 2009)	Qualitative
7.	Spices and condiments & flavours (whole & powder, chilly, asafoetida, cumin, ginger, dhana powder)	Moisture	IS 1797:1985 (RA 2003)	0.1 g/100 g to 20 g/100 g
		Total ash	IS 1797:1985 (RA 2003)	0.1 g/100 g to 15 g/100 g
		Acid insoluble ash	IS 1797:1985 (RA 2003)	0.01 g/100 g to 5 g/100 g
		Non volatile ether extract	IS 1797:1985 (RA 2003)	0.1 g/100 g to 30 g/100 g
		Volatile oil	IS 1797:1985 (RA 2003)	0.1 g/100 g to 25 g/100 g
		Cold water soluble extract	IS 1797:1985 (RA 2003)	0.1 g/100 g to 30 g/100 g
		Bulk Density	ASTA 25.0 4th Edition 1997 (RA 2013)	0.1 g/ml to 8.0 g/ml
		Calcium (as CaO3)	IS 1797:1985 (RA 2003)	0.1 g/100 g to 10g/100 g
		Salt (as NaCl)	IS 1797:1985 (RA 2003)	0.1 g/100 g to 20 g/100 g
		Crude fibre	IS 1797:1985 (RA 2003)	1 g/100 g to 40 g/100 g
		Total Nitrogen	IS 5453 (Part 1) 1996 (RA 2003)	0.1 g/100 g to 20 g/100 g

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8.	Turmeric and Curcumin Powder	Curcumin content	IS 10925:1984 (RA 2007)	1 g/100 g to 15 g/100g
		Starch (on dry basis)	IS 4706 (Part 2) 1978 (RA 2005)	40 g/100 g to 60 g/100g
		Presence of chromates	IS 3576-1994 (RA 2003)	Qualitative
9.	Bakery Products, Bread, Biscuit, Noodles, Snacks & Confectionary Products	Energy	FAO Food & Nutrition Paper 77,2003	50 Kcal/100g to 700 Kcal/100g
		Carbohydrate	IS 12711:1989 (RA 2005)	1 g/100 g to 90 g/100 g
		Fat	IS 12711:1989 (RA 2005)	0.1 g/100 g to 60 g/100 g
		Protein	IS 7219:1973 (RA 2005)	0.05 g/100 g to 50g/100 g
		Crude Fiber	IS 12711:1989 (RA 2005)	0.5 g/100 g to 30g/100 g
		Moisture	IS 12711:1989 (RA 2005)	0.2 g/100 g to 50g/100 g
		Ash	IS 12711:1989 (RA 2005)	0.1 g/100 g to 10g/100 g
		Acidity of extracted fat	IS 12711:1989 (RA 1994) IS 1011-2002	0.1 g/100 g to 3.0 g/100 g
		Total solids	IS 12711:1989 (RA 2005)	5.0 g/100 g to 99g/100 g
		Reducing sugar	AOAC Official Method 939.03	1 g/100 g to 90g/100g
		Starch	IS 4706 (Part 2) 1978 (RA 2005)	0.2 g/100 g to 50g/100 g
		Sulphated ash	IS 6287:1985 (RA 2005) AOAC 900.02	0.01 g/100 g to 2g/100 g
		Sugar	IS 4079:1967 (RA 2005)	1 g/100 g to 70.0g/100 g
		Salt	ISO 1841-1:1996 (RA 2005)	0.1 g/100 g to 30g/100 g
		Sodium	AOAC 985.01, 975.03, 990.08 by ICP-MS/ IS 12711:1989 (RA 1994), FSSAI LAB MANUAL 9	1 mg/kg to 100 mg/kg
Potassium	AOAC 985.01, 975.03, 990.08 by ICP-MS/ IS 12711:1989 (RA 1994) FSSAI LAB MANUAL 9	1 mg/kg to 100 mg/kg		
Calcium	AOAC 985.01, 975.03, 990.08 by ICP-MS/ IS 12711:1989 (RA 1994)	1 mg/kg to 100 mg/kg		

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		Iron	FSSAI LAB MANUAL 9 AOAC 985.01, 975.03, 990.08 by ICP-MS/ IS 12711:1989 (RA 1994) FSSAI LAB MANUAL 9	1 mg/kg to 100 mg/kg
		Copper	AOAC 985.01, 975.03, 990.08 by ICP-MS/ IS 12711:1989 (RA 1994) FSSAI LAB MANUAL 9	1 mg/kg to 100 mg/kg
		Zinc	AOAC 985.01, 975.03, 990.08 by ICP-MS/ IS 12711:1989 (RA 1994) FSSAI LAB MANUAL 9	1 mg/kg to 100 mg/kg
		Magnesium	AOAC 976.09, 20 th Edition, FSSAI lab manual 9	1 mg/kg to 100 mg/kg
		Phosphorous	ISO 13730:1996, FSSAI lab manual	1 mg/kg to 100 mg/Kg
		Manganese	AOAC 985.35, 20 th Edition, FSSAI	1 mg/kg to 100 mg/kg
		Lead	AOAC 972.25, 20 th Edition, FSSAI	1 mg/kg to 100 mg/kg
		Mercury	FSSAI Lab manual 9 (Part 18), FSSAI	1 µg/Kg to 500 µg/Kg
		Arsenic	EPA METHOD 200.2, FSSAI	1 µg/Kg to 500 µg/Kg
10.	Alcoholic Beverages (Rum, Whisky, Brandy, Gin, Beer)	Residue on evaporation	IS 3752:2005 (RA 2008)	0.1 g/100 g to 25g/100 g
		Volatile acidity	IS 3752:2005 (RA 2008)	1 g/100L to 150 g/100L
		pH	IS 3752:2005 (RA 2008)	3 to 12
		Ash content	IS 3752:2005 (RA 2008)	0.01 g/100 g to 2.0 g/100 g
		Methyl alcohol	IS 3752:2005 (RA 2008)	Qualitative
		Ethanol	IS 3752:2005 (RA 2008)	1 g/100 g to 60 g/100 g

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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
11.	Fruits and Vegetable Products, Food & Processed Food	Moisture	AOAC 930.28, 20 th Edition	0.1 g/100 g to 95 g/100 g
		Ash	AOAC 940.26, 20 th Edition	0.1 g/100 g to 20g/100 g
		Total solids	AOAC 920.51, 20 th Edition	1 g/100 g to 95 g/100 g
		Protein	AOAC 2001.,20 th Edition/SOP/QC/52 Issue date:27/08/2017	0.5 g/100 g to 90g/100 g
		Sugar	AOAC 925.36, 20 th Edition, IS 6287-1985 (RA 1999)	0.5 g/100 g to 95g/100 g
		Acidity (as citric acid)	AOAC 942.15, 20 th Edition	0.1 g/100 g to 10 g/100 g
		Volatile acidity	AOAC 925.34, 20 th Edition	0.1 g/100 g to 5g/100 g
		Energy/Calories	FAO Food & Nutrition Paper 77,2003	40 Kcal/100g to 900 Kcal/100g
		Carbohydrates	AOAC 986.25, 20 th Edition	0.5 g/100 g to 99 g/100 g
		Total Fat	IS 1164-1986 (RA 2012)	1.0 g/100 g to 60.0 g/100 g
12.	Caramel	Lead	IS 4467:1996 (RA 2001); AOAC 972.25 20 th Edition	1 mg/kg to 20 mg/kg
		Arsenic	IS 4467:1996 (RA 2001)	0.1 mg/kg to 20 mg/kg
		Solid content	IS 4467:1996 (RA 2001)	1 g/100 g to 100 g/100 g
		Ammonical nitrogen,	IS 4467:1996 (RA 2001)	0.1 g/100 g to 0.5 g/100 g
		Total Sulphur	IS 4467:1996 (RA 2001)	0.1 g/100 g to 2.0 g/100 g
		Sulphur dioxide	IS 4467:1996 (RA 2001)	0.1 g/100 g to 0.5 g/100 g
		Total Nitrogen	IS 4467:1996 (RA 2001)	1.0 g/100 g to 10.0 g/100 g
		Copper	IS 4467:1996 (RA 2001)	0.1 mg/kg to 20 mg/kg
II.	WATER			
1.	Packaged Drinking Water, Packaged Natural Mineral Water Drinking Waters, Water for Processed Food	Colour	APHA 22 nd Edition 2012 (2120B)/usual comparison method (pt-cobalt)	5 Hu to 100 Hu
		Total solid	APHA 22 nd Edition 2012 (2540B)	10 mg/L to 10000 mg/L
		Total Dissolved Solid	IS 3025 (Part 16) 1984 (RA 2002)	5 mg/L to 10000 mg/L

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	Industry	Total suspended Solid	IS 3025 (Part-17) (RA 2012)	5 mg/L to 1000 mg/L
		pH	APHA 22nd Edition 2012 (4500H&B)/IS 3025 (Part 11), (RA 2002)	3 to 12
		Electrical Conductivity	APHA 22nd Edition 2012 2510B	1 µs/cm to 3000 µs/cm
		Copper	APHA 22nd Edition 2012 (3500-Cu)/by ICP-MS	0.1 mg/L to 100 mg/L
		Iron	APHA 22nd Edition 2012 (3500-Fe)/by ICP-MS	0.1 mg/L to 100 mg/L
		Manganese	APHA 22nd Edition 2012 (3500-Mn)/by ICP-MS	0.5 mg/L to 100 mg/L
		Nitrate	APHA 22nd Edition 2012 (4500-NO3 B)	0.1 mg/L to 50 mg/L
		Nitrite	APHA 22nd Edition 2012 (4500-NO2 B)/	0.1 mg/L to 100 mg/L
		Fluoride	APHA 22nd Edition 2012 (4500-FD)	0.1 mg/L to 100 mg/L
		Boron	IS (Part 29) of 3025:1964/by ICP-MS	0.1 mg/L to 100 mg/L
		Chromium (as Cr +6)	APHA method 22 nd 3500-B	0.1 mg/L to 10.0 mg/L
		Total Hardness (as CaCO ₃)	IS 3025 (Part 21) 1983 (RA 2009)	1 mg/L to 1000 mg/L
		COD	IS 3025 (Part 58)-2006/APHA 22nd Edition 2012 5220	5 mg/L to 25000 mg/L
		Phosphate	APHA 22nd Edition 2012 (4500-P D)	0.1 mg/L to 50 mg/L
		Oil & Grease	IS 3025 (Part 39) 1991partial gravimetric method	0.1 mg/L to 100 mg/L
	Zinc	IS 3025 (Part 49) 1994 (RA 2009)/by ICP-MS	0.5 mg/L to 100 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
		Chloride	IS 3025(Part 32)	1 mg/L to 1000 mg/L
		Selenium	APHA 22nd Edition 2012 (3500-Se)/IS 3025 (Part 56)/by ICP-MS	0.1 mg/L to 100 mg/L
		Sulphate	APHA 22nd Edition 2012 (4500-SO4 E)//IS 3025 (Part 24)	0.1 mg/L to 500 mg/L
		Total Alkalinity	IS 3025 (Part 23) 1986 (RA 2003)	1 mg/L to 500 mg/L
		Alkalinity M-alkalinity)	IS 3025 (Part 23)	1 mg/L to 1000 mg/L
		Alkalinity (As CaCO ₃) p-alkalinity	APHA 22nd Edition 2012 (2320 B)/IS 3025 (Part 23)	1 mg/L to 1000 mg/L
		Calcium	APHA-22 nd Edition 2012 (3500Ca-B)	1 mg/L to 1000 mg/L
		Magnesium	APHA-22 nd Edition 2012 (3500Mg-B)	1 mg/L to 1000 mg/L
		Phenolic Compound	APHA 22nd Edition 2012 (5530-C +D)	0.05 mg/L to 10 mg/L
		Free Residual chlorine	IS 3025 (Part 26)-1986 (RA 2003)	0.1 mg/L to 10 mg/L
		Cyanide	APHA 22nd Edition 2012 (4500-CNC&E)/IS 3025 (Part 27)	0.02 mg/L to 3 mg/L
		Arsenic	APHA 22 nd Edition 2012 (3500-As A)/by ICP-MS	0.01 mg/L to 100 mg/L
		Lead	APHA 22nd Edition 2012 (3500-Pb)/by ICP-MS	0.05 mg/L to 10 mg/L
		Chromium	APHA 22nd Edition 2012 (3500-Cr)/by ICP-MS	0.05 mg/L to 100 mg/L
		Nickel	APHA 22nd Edition 2012 (3500-Ni)/by ICP-MS	0.01 mg/L to 100 mg/L
		Sulphide	APHA 4500 Suphides E-Iodometric	0.1 mg/L to 8 mg/L

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		Ammonical Nitrogen	IS 3025(Part 34) 2003	0.1 mg/L to 50 mg/L
		Reactive silica	APHA 22nd Edition 2012-4500C	0.1 mg/L to 5 mg/L
		Sodium	APHA 22nd Edition 2012 (3500-Na A)/IS 3025 (Part 45)/by ICP-MS	0.01 mg/L to 100 mg/L
		Potassium	APHA 22nd Edition 2012 (3500-K A)/IS 3025 (Part 45)/by ICP-MS	0.01 mg/L to 100 mg/L
		Mercury	APHA 22nd Edition 2012 (3500-Hg)/IS 3025 (Part 48)/by ICP-MS	0.01 mg/L to 100 mg/L
		Cadmium	APHA 22nd Edition 2012 (3500-Cd A)/IS 3025 (Part 41)/by ICP-MS	0.01 mg/L to 100 mg/L
III.	AMBIENT AIR			
1.	Ambient Air Monitoring	Sulphur dioxide (SO ₂)	IS 5182 (Part 2) (RA 2001)	1 µg/m ³ to 100 µg/m ³
		Nitrogen dioxide (NO ₂)	IS 5182 (Part 6) 2006 (RA 2012)	1 µg/m ³ to 100 µg/m ³
		RSPM (PM10)	SOP/QC/47 Issue Date:25/08/2017	5 µg/m ³ to 1000 µg/m ³
		Noise Level/Source Monitoring	SOP/QC/53 Issue Date:27/08/2017	40 db to 130 db
		Ambient Ammonia	IS 5182 (Part 6) 2006 (RA 2012)	1 µg/m ³ to 100 µg/m ³

NOTE: The Laboratory has demonstrated competence for the stated scope for **WATER**. This however **does not fully cover** the specification requirements of **BIS for the Packaged Drinking Water as per IS:14543 and the Packaged Natural Mineral Water IS:13428.**

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