

Laboratory	Spectro Analytical Labs Ltd., E-41, Okhla Industrial Area, Phase-II, New Delhi		
Accreditation Standard	ISO/IEC 17025:2005		
Discipline	Biological Testing	Issue Date	02.03.2014
Certificate Number	T-1073	Valid Until	01.03.2016
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I.	FOOD & AGRICULTURAL PRODUCTS			
	a) Processed Cereal Based Weaning Food	Bacterial count	IS 5402-2012	≥10 cfu/gm
		Coliform count	IS 5401 (P-1) 2002	≥10 cfu/gm
	b) Milk-Cereal based weaning food	Bacterial count	IS 5402-2012	≥10cfu/gm
		Coliform count	IS 5401 (P-1) 2002	≥10 cfu/gm
		S.aureus	IS 5887-8-2002	≥10 cfu/gm
		Salmonella	IS 5887-3-1999	Present/Absent/25gm
		Shigella	IS 5887-7-1999	Present/Absent/25gm
	c) Infant Milk Foods	Bacterial count	IS 5402-2012	≥10 cfu/gm
		Coliform count	IS 5401 (P-1) 2002	≥10 cfu/gm
	d) Ready to Eat Protein Rich Food	Bacterial count	IS 5402-2012	≥10 cfu/gm
		Coliform count	IS 5401 (P-1) 2002	≥10 cfu/gm
		Salmonella	IS 5887-3-1999	Present/Absent/25gm
	e) Protein Rich Supplement	Bacterial count	IS 5402-2012	≥10 cfu/gm
		Coliform count	IS 5401 (P-1) 2002	≥10 cfu/gm

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	f) Quick frozen vegetables	Bacterial count	IS 5402-2012	≥10 cfu/gm
		Coliform count	IS 5401 (P-1) 2002	≥10 cfu/gm
		E.coli	IS 5887-1-1976	Present/Absent/gm
		Faecal streptococci	IS 5887-2-1976	Present/Absent/gm
		S.aureus	IS 5887-8-2002	≥10 cfu/gm
	g) Milk & Milk Product Raw milk	Methylene blue Reduction test (MBRT)	IS 1479-3-1977	(1/2h to 5h)
		Pasteurization count	IS 1479-3-1977	Poor-very good
		Bacterial count	IS 5402-2012	≥10 cfu/gm
		Psychrophillic count	IS 1479-3-1977	≥10 cfu/gm
		Thermophillic count	IS 1479-3-1977	≥10 cfu/gm
		Coliform count	IS 5401 (P-1) 2002	≥10 cfu/gm
		Coagulase positive	IS 5887-8-2002	≥10 cfu/gm
		S. aureus	IS 5887-8-2002	≥10 cfu/gm
		Salmonella	IS 5887-3-1999	Present/Absent
		Shigella	IS 5887-7-1999	Present/Absent
		Yeast&Mould	IS 5403-1999	≥10cfu/g/ml
		E.coli	IS 5887-1-1976	Present/Absent/25gm
		L.monocytogenes	IS 14988-1-2001	Present/Absent/25gm

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	h) Milk powder	Bacterial count	IS 5402-2012	≥10 cfu/gm
		Coliform count	IS 5401 (P-1) 2002	≥10 cfu/gm
		S.aureus	IS 5887-8-2002	≥10 cfu/gm
		Salmonella	IS 5887-3-1999	Present/Absent/25gm
		Shigella	IS 5887-7-1999	Present/Absent/25gm
		L.monocytogenes	IS 14988-1-2001	Present/Absent/25gm
	i) Condensed Milk	Bacterial count	IS 5402-2012	≥10 cfu/gm
		Coliform count	IS 5401 (P-1) 2002	≥10 cfu/gm
		S.aureus-coagulase positive	IS 5887-8-2002	≥10 cfu/gm
		Salmonella	IS 5887-3-1999	Present/Absent/25gm
		Shigella	IS 5887-7-1999	Present/Absent/25gm
		Y&M count	IS 5403-1999	≥10 cfu/gm
		E.coli	IS 5887-1-1976	Present/Absent/25gm
	j) Chocolates	S. aureus	IS 5887-8-2002	≥10 cfu/gm
		Salmonella	IS 5887-3-1999	Present/Absent/25gm
		E.coli	IS 5887-1-1976	Present/Absent/10gm

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	k) Wheat Flour	Y&M count	IS 5403-1999	≥10 cfu/gm
		Bacterial count	IS 5402-2012	≥10 cfu/gm
		Coliform count	IS 5401 (P-1) 2002	≥10 cfu/gm
		Y&M count	IS 5403-1999	≥10 cfu/gm
	l) Meat & Meat Product	E.coli	IS 5887-1-1976	Present/Absent/gm
		Bacterial count	IS 5402-2012	≥10 cfu/gm
		Coliform count	IS 5401 (P-1) 2002	≥10 cfu/gm
		E.coli	IS 5887-1-1976	Present/Absent/25gm
		Salmonella	IS 5887-3-1999	Present/Absent/25gm
		Shigella	IS 5887-7-1999	Present/Absent/25gm
		S.aureus	IS 5887-8-2002	≥10 cfu/gm
		Faecal streptococci	IS 5887-2-1976	≥10 cfu/gm
		Vibrio cholerae	IS 5887-5-1976	Present/Absent/25gm
		Vibrio parahaemolyticus	IS 5887-5-1976	Present/Absent/25gm
		L.monocytogenes	IS 14988-1-2001	Present/Absent/25gm
		Bacillus cereus	IS 5887-6-2012	≥10 cfu/gm

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	m) Rice	Bacterial count	IS 5402-2012	≥10 cfu/gm
		Coliform count	IS 5401 (P-1) 2002	≥10 cfu/gm
		E.coli	IS 5887-1-1976	Present/Absent/25gm
		Salmonella	IS 5887-3-1999	Present/Absent/25gm
		Y&M count	IS 5403-1999	≥10 cfu/gm
		Bacillus cereus	IS 5887-6-2012	≥10 cfu/gm
		S.aureus	IS 5887-8-2002	≥10 cfu/gm
	n) Fruit Vegetable Product	Bacterial count	IS 5402-2012	≥10 cfu/gm
		Coliform count	IS 5401 (P-1) 2002	≥10 cfu/gm
		E.coli	IS 5887-1-1976	Present/Absent/25gm
		Y&M count	IS 5403-1999	≥10 cfu/gm
II.	DRUGS & PHARMACEUTICALS			
	Herbal Products			
	a) Herbal Products	Bacterial count	IS 5402-2012	≥10 cfu/ml/gm
	Herbal Medicine (Tablets, Syrup, Capsules & Powder)	Coliform count	IS 5401 (P-1) 2002	≥10 cfu/gm
		E.coli	IS 5887-1-1976	≥10 cfu/ml/g & P/A/25gm
	b) Herbal Cosmetics (Face Pack, Shampoo, Cream, Lotion)	Salmonella	IS 5887-3-1999	Present/Absent/ml/gm
	c) Herbal Formulations (Juices, Soap, Shaving Lotion, Food Supplements)	Y&M count	IS 5403-1999	≥10 cfu/ml/gm

III. COSMETICS & ESSENTIAL OILS

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	a) Cosmetics (Shampoo, Face Packs, Moisturizer lotion, Cream gel, Lipstick, Lip Guard, Liquid Foundation)	Microbial count (Bacterial Count + Yeast & mold count)	IS 14648-2011 IS 14648-2011	≥ 10 cfu/gm ≥ 10 cfu/gm
		Gram Positive (S.aureus)	IS 14648-2011	Present/Absent
		Gram Negative (Pseudonas)	IS 14648-2011	Present/Absent
	b) ATF Fuel	Microbial count	IP-385/99	≥ 1 cfu/1 l
IV. WATER				
	a) Swimming pool water	Standard plate count	IS 3328-(Ann A)-1993	≥ 1 cfu/ml
	b) Drinking water	Coliform bacteria	IS 1622-1981	≥ 2 MPN /100ml
		E.coli	IS 1622-1981	Present/Absent/100ml
		Coliform	IS 1622-1981	≥ 2 MPN/100ml
		Fecal coliform	IS 1622-2003	Present/Absent/100ml

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	c) Packaged Drinking Water	E.coli	IS 5887-1-1976 IS 15185-2002	Present/Absent/250ml
		Coliform bacteria	IS 5401-1-2002 IS 15185-2002	Present/Absent/250ml
		Faecal streptococci	IS 15186-2002	Present/Absent/250ml
		Sulphite reducing anaerobes	IS13428(Ann-C)-2005 Amd 2011	Present/Absent/50ml
		Pseudomonas aeruginosa	IS13428(Ann-D)-2005 Amd 2011	Present/Absent/250ml
		Aerobic microbial count (at 20-22°C 72 hrs and at 37°C 24 hrs)	IS 5402-2012	≥1cfu/ml
		Yeast and Mould	IS 5403-1999	Present/Absent/250ml
		Salmonella	IS 5887-3-1999 IS 15187-2002	Present/Absent/250ml
		Shigella	IS 5887-7-1999	Present/Absent/250ml
		Vibrio Cholera	IS 5887-5-1976	Present/Absent/250ml
		Vibrio parahaemolyticus	IS 5887-5-1976	Present/Absent /250ml
		S. aureus	IS 5887-2-1976	Present/Absent/250ml
	d) Packaged Natural Mineral Water	E.coli	IS 5887-1-1976 IS 15185-2002	Present/Absent/250ml
		Coliform bacteria	IS 5401-1-2002 IS 15185-2002	Present/Absent/250ml
		Faecal streptococci	IS 15186-2002	Present/Absent/250ml
		Sulphite reducing anaerobes	IS13428(Ann-C)Amm2011	Present/Absent/250ml
		Pseudomonas aeruginosa	IS13428(Ann-D) Amm2011	Present/Absent/250ml
		Aerobic Microbial count (at 20-22°C 72 hrs and at 37°C 24 hrs)	IS 5402 - 2002	Present/Absent/250ml

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		Yeast and Mould	IS 5403-1999	Present/Absent/250ml
		Salmonella	IS 5887-3-1999	Present/Absent/250ml
			IS 15187-2002	Present/Absent/250ml
		Shigella	IS 5887-7-1999	Present/Absent/250ml
		Vibrio Cholera	IS 5887-5-1976	Present/Absent/250ml
		Vibrio parahaemolyticus	IS 5887-5-1976	Present/Absent/250ml
		S. aureus	IS 5887-8-2002	Present/Absent/250ml
		Bacterial Endotoxins	USP 36 - 2013	>0.25 EU/ml
V.	ENVIRONMENT & POLLUTION			
	(a) Bioburden Estimation of Compressed Air	Total Plate Test for viable microbiological Count	ISO 8573-7:2003	1 cfu/m ³ to TNTC contaminant content cfu/m ³
-X-X-X-X-X-X-X-X-X-X-X-X-X-X-				

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**.