

<b>Laboratory</b>	<b>Italab (Goa) Pvt. Ltd., Italab House, Apollo Victor Hospital Road, Malbhat, Margao, Goa</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Biological Testing</b>	<b>Issue Date</b>	<b>26.11.2014</b>
<b>Certificate Number</b>	<b>T-1850</b>	<b>Valid Until</b>	<b>25.11.2016</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>I. WATER</b>				
<b>1.</b>	<b>Domestic and Potable water</b>	Standard plate count at 37°C	IS 1622:1981 (RA 2009)	≥1 CFU / ml
		Coliform MPN Technique	IS 1622:1981 (RA 2009)	≥2 to ≤1600/100ml
		Enumeration of Faecal streptococci (MPN Technique)	IS 1622:1981 (RA2009)	≥2 to ≤1600/100ml
		Detection of E.coli	IS 1622:1981 (RA 2009)	Present/Absent per100 ml
		Detection of Staphylococcus aureus	IS 15188: 2002	Present/Absent per100 ml
<b>2.</b>	<b>Packaged Natural Mineral water</b>	Coliform count	IS 5401 (Part 1): 2002 (RA 2007) IS 15185:2002 (RA 2011)	≥1 CFU/ ml (Present/Absent) per 250 ml
		Detection of Salmonella	IS 15187: 2002 (RA 2011) IS 5887 (Part 3) : 1999 (RA 2009)	(Present/Absent) per 250 ml
		Detection of Shigella	IS 5887 (Part 7 ):1999 (RA 2009)	(Present/Absent) per 250 ml
		Detection of Vibrio cholerae	IS 15188: 2002 (RA 2011) IS 5887 (Part 5) :1976 (RA 2009)	(Present/Absent) per 250 ml
		Detection of Vibrio parahaemolyticus	IS 15188: 2002 (RA 2011) IS 5887 (Part 5) :1976 (RA 2009)	(Present/Absent) per 250 ml
		Detection of Yeast and Moulds (MF Technique)	IS 15188: 2002 IS 5403 :1999 (RA 2009)	(Present/Absent) per 250 ml
		Detection of E.coli	IS 15185:2002 (RA 2011)	(Present/Absent) per 250 ml
		Detection of Pseudomonas aeruginosa	IS 13428:2005 (RA 2011) Annexure D	(Present/Absent) per 250 ml
		Detection of Staphylococcus aureus	IS 5887 (Part 2 ):1976 (RA 2009)	(Present/Absent) per 250 ml
		Detection of faecal streptococci	IS 5887 (Part 2 ): 1976( RA 2009)	(Present/Absent) per 250 ml

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3	Water for Industrial purpose (Cooling Towers)	Detection and Isolation of Legionella(MF)	ISO 11731: 1998 (E)	(Present/Absent) per 100 ml
4	Packaged drinking water	Standard plate count at 37 °C, and 20 °C to 22 °C to 22 °C	IS 5402: 2002 (RA 2007)	≥1 CFU / ml
		Coliform count	IS 5401 (Part 1): 2002 (RA 2007) IS 5401 (Part 2): 2002 (RA 2007)	≥2 to ≤1600/100ml ≥1 CFU/ ml
		Detection of Salmonella	IS 15187: 2002 (RA 2011) IS 5887 (Part 3): 1999 (RA 2009)	(Present/Absent) per 250 ml
		Detection of Shigella	IS 5887 (Part 7 ): 1999 (RA 2009)	(Present/Absent) per 250 ml
		Detection of Vibrio cholerae	IS 5887 (Part 5): 1976 (RA 2009)	(Present/Absent) per 250 ml
		Detection of Vibrio parahaemolytic	IS 5887 (Part 5): 1976 (RA 2009)	(Present/Absent) per 250 ml
		Detection of Yeast and Moulds (MF Technique)	IS 5403 : 1999 (RA 2009)	(Present/Absent) per 250 ml
		Detection of E.coli	IS 15185: 2002 (RA 2011)	(Present/Absent) per 250 ml
		Detection of Staphylococcus aureus	IS 5887 (Part 2 ): 1976 (RA 2009)	(Present/Absent) per 250 ml
		Detection of Pseudomonas aeruginosa	IS 13428: 2005 (RA 2011) Annexure D	(Present/Absent) per 250 ml
		Detection of Faecal Streptococci	IS 5887 (Part 2 ): 1976 (RA 2009)	(Present/Absent) per 250 ml
5	Swimming pool-	Standard plate count at 37 °C	IS 1622:1981 (RA 2009)	≥1 CFU/ ml
		Coliform by MPN	IS 1622:1981 (RA 2009)	≥2 to ≤1600 MPN/100ml
		Legionella	ISO 11731: 1998 (E)	(Present/Absent) per 100 ml

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<b>6</b>	<b>Drinking Water</b>	Standard plate count at 37°C,	IS 1622:1981 (RA 2009)	≥1 CFU/ ml
		Coliform MPN	IS 1622:1981 (RA 2009)	≥2 to ≤1600 MPN/100ml
		Detection of E.coli	IS 1622:1981 (RA 2009) IS I5185:2002 (RA 2009)	(Present/Absent) per 100 ml
		Legionella	ISO 11731: 1998(E)	(Present/Absent) per 100ml
<b>7</b>	<b>Water for Processed food industry-</b>	Standard plate count at 37°C	IS 1622:1981 (RA 2009)	≥1CFU / ml
		Coliform MPN	IS 1622:1981 (RA 2009)	≥2 to ≤1600 MPN/100ml

## **II. FOOD AND AGRICULTURAL PRODUCTS**

<b>1.</b>	<b>Cooked food/ Ready to eat Food</b>	Standard plate count 30 °C	IS 5402 : 2002 (RA 2007)	≥ 10 CFUgm/ ml
		Coliforms count	IS5401(Part 1): 2002 (RA 2007)	≥ 10 CFUgm/ ml
		Staphylococcus aureus count	IS 5887 (Part 2): 1976 (RA 2009)	≥ 10 CFUgm/ ml
		Detection of Salmonella/	IS 5887 (Part 3):1999 (RA 2009)	(Present/Absent) per 25 g/ml
		Detection of Shigella	IS 5887 (Part 7 ):1999 (RA 2009)	(Present/Absent) per 25 g/ ml
		Detection of Vibrio cholerae	IS5887 (Part 5) 1999 (RA 2009)	(Present/Absent) per 25g/ ml
		Detection Vibrio parahaemolyticus	IS5887 (Part 5) 1999 (RA 2009)	(Present/Absent) per 25 g/ ml
		Yeast and Moulds count	IS 5403: 1999 (RA 2009)	≥ 10 CFU g/ ml
		E. coli count	IS5887 (Part 1)1976 (RA 2009)	≥ 10 CFU g/ ml

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<b>2.</b>	<b>Meat and meat products</b>	Standard plate count 30 °C	IS 5402 : 2002 (RA 2007)	≥ 10 CFU g/ ml
		Coliforms count	IS5401(Part 1) 2002 (RA 2007)	≥ 10 CFU g/ ml
		Staphylococcus aureus count	IS 5887 (Part 2) :1976 (RA 2009)	≥ 10 CFU g/ ml
		Detection of Salmonella	IS 5887 (Part 3) :1999 (RA 2009)	(Present/Absent) per 25 g/ml
		Detection of Shigella	IS 5887 (Part 7 ):1999 (RA 2009)	(Present/Absent) per 25g / ml
		Detection of Vibrio cholerae	IS5887 (Part 5) 1999 (RA 2009)	(Present/Absent) per 25g/ ml
		Detection of Vibrio parahaemolyticus	IS5887 (Part 5) 1999 (RA 2009)	(Present/Absent) per 25g/ ml
		Yeast and Moulds count	IS 5403: 1999 (RA 2009)	≥ 10 CFU g/ ml
		E. coli count	IS5887 (Part 1)1976 (RA 2009)	≥ 10 CFU g/ ml
<b>3.</b>	<b>Fish and fishery products</b>	Standard plate count 30 °C	IS 5402 : 2002 (RA 2007)	≥ 10 CFU g/ ml
		Coliforms count	IS 5401(Part 1) 2002 (RA 2007)	≥ 10 CFU g/ ml
		Staphylococcus aureus count	IS 5887 (Part 2) : 1976 (RA 2009)	≥ 10 CFU g/ ml
		Detection of Salmonella	IS 5887 (Part 3) :1999 (RA 2009)	(Present / Absent) 25 g/ml
		Detection of Shigella	IS 5887 (Part 7 ):1999 (RA 2009)	(Present / Absent) 25 g/ml
		Detection of Vibrio cholera	IS5887 (Part 5) 1999 (RA 2009)	(Present / Absent) 25g/ml
		Detection of Vibrio parahaemolyticus	IS5887 (Par 5) 1999 (RA 2009)	(Present / Absent) 25g/ml
		Yeast and Moulds count	IS 5403: 1999 (RA 2009)	≥ 10 CFU g/ ml
		E. coli count	IS5887 (Part 1): 1976 (RA 2009)	≥ 10 CFU g/ ml

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<b>4.</b>	<b>Milk &amp; Milk Products-</b>	Standard Plate Count at count 30 °C	IS 1479 (Part 3): 1979 (RA 2011)	≥ 10 CFU/ g/ ml
		Coliforms count	IS 1479 (Part 3): 1979 (RA 2011)	≥ 10 CFU/ g/ ml
		Staphylococcus aureus count	IS 1479 (Part 3): 1979 (RA 2011)	≥ 10 CFU/ g/ ml
		Detection of Salmonella	IS5887 (Part 3): 1999 (RA 2009)	(Present / Absent)25/ g
		E. coli count	IS5887 (Part 1): 1976 (RA 2009)	≥ 10 CFU/ g/ ml
<b>5.</b>	<b>Animal Feeds</b>	Coliforms count	IS7874 (Part 3):1975(RA 2011)	≥ 10 CFU/g
		Detection of Salmonella	IS 5887(Part 3): 1999 (RA 2009)	(Present/Absent) per 25/ g

### **III. COSMETICS AND ESSENTIAL OILS**

<b>1.</b>	<b>Cosmetics-Skin Creams</b>	Total Plate count (Total Aerobic Microbial count)	USP 31: 2010 IS 14648: 2005	≥10 CFU/ g/ ml
		Total Fungal count (Total Combined Yeast and Mould count )	USP 31: 2010 IS 14648: 2011	≥10 CFU/ g/ ml
		Enterobacterial count	USP 31: 2010	≥10 CFU/ g/ ml
		Staphylococcuss aureus	IS 14648:2011	≥10 CFU/ g/ ml
		Pseudomonas aeruginosa	IS 14648:2011	≥10 CFU/ g/ ml
<b>2.</b>	<b>Extracts- (Plant Leaf Extract/ Herbal Extract)</b>	Total Plate count (Total Aerobic Microbial count)	USP 31: 2010 IS 14648:2005	≥10 CFU/ g/ ml
		Total Fungal count (Total Combined Yeast and Mould count )	USP 31: 2010 IS 14648:2011	≥ 10 CFU/ g / ml
		Enterobacterial count	USP 31: 2010	≥ 10 CFU/ g / ml
		Staphylococcuss aureus	IS 14648:2011	≥ 10 CFU/ g/ ml
		Pseudomonas aeruginosa	IS 14648:2011	≥ 10 CFU/ g/ ml

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<b>3.</b>	<b>Dohs &amp; related items (Playdoh/ Creadoh/ Vanilla Essence/ White Oil)</b>	Total Plate count (Total Aerobic Microbial count)	USP 31: 2010 IS 14648: 2005	≥10 CFU/ g/ ml
		Total Fungal count (Total Combined Yeast and Mould count )	USP 31: 2010 IS 14648: 2011	≥10 CFU/ g/ ml
		Enterobacterial count	USP 31: 2010	≥10 CFU/ g/ ml
		Staphylococcuss aureus	IS 14648: 2011	≥10 CFU/ g/ ml
		Pseudomonas aeruginosa	IS 14648: 2011	≥10 CFU/ g/ ml
<b>IV. ENVIRONMENT AND POLLUTION</b>				
<b>1.</b>	<b>Bioburden estimation of non-classified area (Swabs)</b>	Plate Count	ITG/SOP/MIC/31 Issue No.02 Issue Date .20.09.2014	≥ 1 CFU / square centimeter/ square inch
		Coliforms count	ITG/SOP/MIC/31 Issue No.02 Issue Date. 20.09.2014	≥ 1 CFU / square centimeter/ square inch

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