

Laboratory	Cochin Test House, Kollanpady, Irumpanam, Cochin, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Biological Testing	Issue Date	15.09.2014
Certificate Number	T-3111	Valid Until	11.09.2016
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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. Water				
1.	(Packaged Drinking Water, Swimming Pool water, Drinking Water, Water for Processed Food industry)	Coliform count	IS: 1622:1981(RA2003)	≤ 2 to 1600 MPN/100 ml
		a.MPN method		
		b.Membrane filtration Method	IS: 1622:1981(RA2003) IS: 15185:2002 (RA2009)	Present/Absent/100 ml or Present/Absent/250 ml
		Faecal Coliform	IS: 1622:1981(RA2003)	≤ 2 to 1600 MPN/100 ml
		a.MPN method		
		b.Membrane filtration Method	IS: 1622:1981(RA2003)	Present/Absent/100 ml
		E. coli	IS: 1622:1981(RA2003)	≤ 2 to 1600MPN/100 ml
		a.MPN method		
		b.Membrane filtration Method	IS: 1622:1981(RA2003) IS: 15185:2002(RA 2009)	Present/Absent /100 ml or Present/Absent/250 ml
		Proteolytic bacteria count	IS: 4251 App. A 1967(RA2009)	≥ 1 cfu/ml & above
		Lipolytic bacteria count	IS: 4251 App. A 1967(RA2009)	≥ 1 cfu/ml & above
		Sulphite Reducing Bacteria	APHA 22 nd edn. 2012	≤ 1.8 to 1600MPN/100ml
		Total viable colony count@ 37°C for 24 hrs.	IS: 5402:2002(RA2012)	≥ 1 cfu/ml & above
		Total viable colony count at 22°C for 72 hrs.	IS: 5402:2002(RA 2012)	≥ 1 cfu/ml & above
		Faecal streptococci	IS: 15186:2002	Present/Absent/250 ml
		S. aureus	IS: 5887 Part 2-1976 (RA 2009)	Present/Absent/250 ml
		Shigella spp.	IS: 5887 Part 7-1999 (RA2009)	Present/Absent/250 ml
		Salmonella spp.	IS: 15187:2002	Present/Absent/250 ml
		Vibrio cholera	IS: 5887 Part 5-1976 (RA2009)	Present/Absent/250 ml
		Vibrio parahaemolyticus	IS: 5887 Part 5-1976(RA2009)	Present/Absent/250 ml
		Yeast and Mould	IS: 5403:1999(RA2005)	Present/Absent/250 ml

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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
2.	Water for Industrial purpose-cooling water	Sulphite Reducing Bacteria	APHA 22 nd edn. 2012	≤1.8 to 1600MPN/100ml
		Total viable colony count@ 37°C for 24 hrs.	APHA 22 nd edn. 2012	≥1 cfu/ml & above
II. FOOD AND AGRICULTURAL PRODUCTS				
1.	Raw Foods (Fruits, salads, pvegetables etc.) & Cooked foods	Total plate count	IS: 5402:2002 (RA2012)	<10 cfu/g
		Coliform count	IS: 5401 Part 1-2002(RA2007)*	<10 cfu/g
		a.Enumeration Method	ISO 4832:1991	
			IS: 5401 Part 2 -2002(RA2007)	≤ 0.3 to 110 MPN/g
		b.MPN method	ISO 4831: 1991	
		E. coli	IS: 5887 Part 1 -1976(RA2009)	≥10 CFU /g
		a.Enumeration Method		
		b.MPN method	IS: 5887 Part 1-1976(RA2009)	≥0.3 to 110MPN/g/ Present /Absent in 25 g
		Staphylococcus. aureus		≥1 cfu/g
		a.Enumeration Method	IS: 5887 Part 2 -1976(RA2009)	Present/Absent/25g
		Salmonella spp.	IS: 5887Part 3-1999(RA2009)* ISO 6579:2002	Present/Absent/25g
		Shigella spp.	IS: 5887 Part 7-1999(RA2009)	Present/Absent/25g
		Vibrio cholerae	IS: 5887 Part 5 -1976(RA2006)	Present/Absent/25g
Vibrio parahaemolyticus	IS: 5887 Part 5-1976(RA2006)	Present/Absent/25g		
Yeast and Mould	IS: 5403:1999(RA2009)	≥1CFU/g		

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