

<b>Laboratory</b>	<b>Lucid Laboratories Pvt. Ltd., B-1/A T. I. E, Phase- II, Balanagar, Hyderabad, Telangana</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Biological Testing</b>	<b>Issue Date</b>	<b>24.04.2015</b>
<b>Certificate Number</b>	<b>T-1857</b>	<b>Valid Until</b>	<b>23.04.2017</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.</b>	<b>FOOD &amp; AGRICULTURAL PRODUCTS</b>			
<b>1.</b>	<b>Beverages (Non-Alcoholic) Carbonated/ Non Carbonated Beverages</b>	Total Plate Count	IS 5402: 2012	Min 1 CFU/ml
			ISO 4833-1: 2013	Min 1 CFU/ml
			ISO 4833-2: 2013	Min 1 CFU/ml
		Coliforms	IS 5401 (Part 1): 2012	Min 1 CFU
			IS 5401 (Part 2): 2012	(0.3 MPN to 110 MPN)/ml Detection/100ml
		Yeasts and Moulds	IS 5403: 1999	Min 1 CFU/ mL
			IS 16069-1: 2013	Min 1 CFU/ mL
<b>2.</b>	<b>Jams/Sauces/ Fruit Concentrates</b>	Total Plate Count	IS 5402: 2012	Min 10 CFU/g
			ISO 4833-1: 2013	Min 10 CFU/g
			ISO 4833-2: 2013	Min 10 CFU/g
		Yeasts and Moulds	IS 5403: 1999	Min 10 CFU/g
			IS 16069-1: 2013	Min 10 CFU/g
<b>3.</b>	<b>Spices Chilli Powder/ Coriander/ Turmeric Powder</b>	Salmonella	IS 5887 (Part 3): 1999	Qualitative (Presence/Absence)/25g
			ISO 6579: 2002	Qualitative (Presence/Absence)/25g

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<b>4.</b>	<b>Canned and Processed Foods /Ready-to Eat Food/ Animal feeds Mango Pulp/ Guava pulp/Animal Feed/ Ready to Eat (Rice, Chapathi, Pomegranate Arils, Snacks, Chilled and Frozen Fruit &amp; Vegetable Products)</b>	Total Plate Count	IS 5402: 2012 ISO 4833-1: 2013 ISO 4833-2: 2013	Min 10 CFU/g Min 10 CFU/g Min 10 CFU/g
		Yeasts and Moulds	IS 5403: 1999 IS 16069-1: 2013	Min 10 CFU/g Min 10 CFU/g
		Coliforms	IS 5401 (Part 1): 2012 IS 5401 (Part 2): 2012	Min 10 CFU/ g 0.3 MPN/g to 110 MPN/g
		Escherichia Coli	IS 5887 (Part 1): 1976	Min 10 CFU/g 0.3 MPN/g to 110 MPN/g Qualitative (Presence/Absence)/0.1g
		Staphylococcus Aureus	IS 5887 (Part 2): 1976 IS 5887 (Part 8/Sec I): 2002	Min 10 CFU/g Min 10 CFU/g
		Salmonella spp	IS 5887 (Part 3): 1999	Qualitative (Presence/Absence)/25g
		ISO 6579: 2002	Qualitative (Presence/Absence)/25g	
<b>5.</b>	<b>Milk and Dairy Products Milk Powder/ Infant Food/ Condensed Milk/Flavoured Milk/Ice Cream</b>	Total Plate Count	IS 5402: 2012	Min 10 CFU/g
		Coliforms	IS 5401 (Part 1): 2012 IS 5401 (Part 2): 2012	Min 10 CFU/ g (0.3 MPN to 110 MPN)/g
		Yeasts and Moulds	IS 5403: 1999 IS 16069-1: 2013	Min 10 CFU/g Min 10 CFU/g

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	<b>Milk and Dairy Products Milk Powder/ Infant Food/ Condensed Milk/Flavoured Milk/Ice Cream</b>	Enterobacteriaceae	IS 7402: 1993	Min 10 CFU/g (0.3 MPN to 110 MPN)/g Qualitative (Presence/Absence)/0.1g
			ISO 21528-1: 2004	(0.3 MPN to 110 MPN)/g Qualitative (Presence/Absence)/0.1g
		Escherichia Coli	IS 5887 (Part 1): 1976	Min 10 CFU/g (0.3 MPN to 110 MPN)/g Qualitative (Presence/Absence)/0.1g
		Staphylococcus Aureus	IS 5887 (Part 2): 1976 IS 5887 (Part 8/Sec I): 2002	Min 10 CFU/g Min 10 CFU/g
		Salmonella spp	IS 5887 (Part 3): 1999 ISO 6579: 2002	Qualitative (Presence/Absence)/25g Qualitative (Presence/Absence)/25g
<b>6.</b>	<b>Meat &amp; Processed Meat Products Raw Meat/ Frozen Meat</b>	Total plate Count	IS 5402: 2012	Min 10 CFU/g
		Coliforms	IS 5401 (Part 1): 2012 IS 5401 (Part 2): 2012	Min 10 CFU/ g 0.3 MPN/g to 110 MPN/g
		Yeasts and Moulds	IS 5403: 1999 IS 16069-1: 2013	Min 10 CFU/g Min 10 CFU/g

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	<b>Meat &amp; Processed Meat Products Raw Meat/ Frozen Meat</b>	Escherichia Coli	IS 5887 (Part 1): 1976	Min 10 CFU/g (0.3 MPN to 110 MPN)/g Qualitative (Presence/Absence)/0.1g
		Staphylococcus Aureus	IS 5887 (Part 2): 1976 IS 5887 (Part 8/Sec I): 2002	Min 10 CFU/g Min 10 CFU/g
		Salmonella spp	IS 5887 (Part 3): 1999 ISO 6579: 2002	Qualitative (Presence/Absence)/25g Qualitative (Presence/Absence)/25g
		Listeria Monocytogenes	IS 14988 (Part 1): 2001	Qualitative (Presence/Absence)/25g
<b>7.</b>	<b>Cereals, pluses &amp; processed cereals products Wafer biscuits/ Wheat flour</b>	Total plate Count	IS 5402: 2012	Min 10 CFU/g
		Coliforms	IS 5401 (Part 1): 2012 IS 5401 (Part 2): 2012	Min 10 CFU/ g (0.3 MPN to 110 MPN)/g
		Yeasts and Moulds	IS 5403: 1999 IS 16069-1: 2013	Min 10 CFU/g Min 10 CFU/g
		Escherichia Coli	IS 5887 (Part 1): 1976	Min 10 CFU/g (0.3 MPN to 110 MPN)/g Qualitative (Presence/Absence)/0.1g
		Staphylococcus Aureus	IS 5887 (Part 2): 1976 IS 5887 (Part 8/Sec I): 2002	Min 10 CFU/g Min 10 CFU/g

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	<b>Cereals, pluses &amp; processed cereals products Wafer biscuits/ Wheat flour</b>	Salmonella spp	IS 5887 (Part 3): 1999 ISO 6579: 2002	Qualitative (Presence/Absence)/25g Qualitative (Presence/Absence)/25g
		Shigella	IS 5887 (Part 7): 1999	Qualitative (Presence/Absence)/25g
		Bacillus Cereus	IS 5887 (Part 6): 2012	Min 10 CFU/g
<b>8.</b>		<b>Vegetables &amp; Process Vegetable Products Cut Vegetables/ Processed Vegetables</b>	Total plate count	IS 5402: 2012
	Coliforms		IS 5401 (Part 1): 2012 IS 5401 (Part 2): 2012	Min 10 CFU/ g (0.3 MPN to 110 MPN)/g
	Yeasts and Moulds		IS 5403: 1999 IS 16069-1: 2013	Min 10 CFU/g Min 10 CFU/g
	Escherichia Coli		IS 5887 (Part 1): 1976	Min 10 CFU/g (0.3 MPN to 110 MPN)/g Qualitative (Presence/Absence)/0.1g
	Staphylococcus aureus		IS 5887 (Part 2): 1976 IS 5887 (Part 8/Sec I): 2002	Min 10 CFU/g Min 10 CFU/g
	Salmonella spp		IS 5887 (Part 3): 1999 ISO 6579: 2002	Qualitative (Presence/Absence)/25g Qualitative (Presence/Absence)/25g

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	<b>Vegetables &amp; Process Vegetable Products</b>	Shigella	IS 5887 (Part 7): 1999	Qualitative (Presence/Absence)/25g
	<b>Cut Vegetables/ Processed Vegetables</b>	Bacillus Cereus	IS 5887 (Part 6): 2012	Min 10 CFU/g
<b>II. RESISTANCE TO MICROBIAL ATTACK</b>				
<b>1</b>	<b>Electrical &amp; Electronic Components/ Parts/Items/ Coupons</b>	Mould Growth	JSS 55555-2000 Test No:21, Rev No:2 JSS 0256-01 (Part 13): 1992, Rev No:1 MIL-STD-810G, Method 508.6, 2008	Qualitative (Presence/Absence) Qualitative (Presence/Absence) Qualitative (Presence/Absence)
<b>III. WATER</b>				
<b>1</b>	<b>Drinking Water</b>	Total Colony Count	IS 5402: 2012 ISO 6222: 1999	Min 1 CFU/ml Min 1 CFU/ml
		Coliforms	IS 1622: 1981  APHA (22 <sup>nd</sup> Edition) 9221B: 2012 APHA (22 <sup>nd</sup> Edition) 9222B: 2012	(2 MPN to 1600 MPN)/ 100 ml (Presence/Absence)/100 ml (2 MPN to 1600 MPN)/ 100 ml Qualitative (Presence/Absence)/ 100ml
		Faecal Coliforms	IS 1622: 1981	Qualitative (Presence/Absence)/100 ml
		Escherichia coli/ Thermotolerant Bacteria	IS 15185: 2002	Qualitative (Presence/Absence)/100 ml

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	<b>Drinking Water</b>	Enterococci	IS 15186: 2002	Qualitative (Presence/Absence)/100 ml
		Pseudomonas Aeruginosa	ISO 16266: 2006	Qualitative (Presence/Absence)/100 ml
<b>2.</b>	<b>Water for Processed Food Industry</b>	Standard Plate Count	IS 1622: 1981	Min 1 CFU/ml
		Coliforms	IS 1622: 1981	2 MPN to 1600 MPN/100 ml
		Proteolytic & Lipo-lytic bacterial Count	IS 4251: 1967	Min 1 CFU/ml
		Thermophilic Bacteria	IS 4251: 1967	Min 1 CFU/ml
<b>3.</b>	<b>Packaged Drinking water / Packaged Natural Mineral Water</b>	Total Viable Colony Count at 37°C	IS 5402: 2012	Min 1 CFU/ml
		Total Viable Colony Count at 22°C		Min 1 CFU/ml
		Coliforms	IS 15185: 2002	Qualitative (Presence/Absence)/250 ml
		Escherichia coli	IS 15185: 2002	Qualitative (Presence/Absence)/250 ml
		Yeasts and Moulds	IS 5403: 1999	Qualitative (Presence/Absence)/250 ml
		Pseudomonas aeruginosa	IS 13428: 2005	Qualitative (Presence/Absence)/250 ml
		Sulphite reducing Anaerobes	IS 13428: 2005	Qualitative (Presence/Absence)/50 ml

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	<b>Packaged Drinking water / Packaged Natural Mineral Water</b>	Faecal Streptococci	IS 15186: 2002	Qualitative (Presence/Absence)/250 ml
		Staphylococcus Aureus	IS 5887 (Part 2): 1976	Qualitative (Presence/Absence)/250 ml
		Salmonella	IS 15187: 2002	Qualitative (Presence/Absence)/250 ml
		Shigella	IS 5887 (Part 7): 1999	Qualitative (Presence/Absence)/250 ml
		Vibrio Cholera	IS 5887 (Part 5): 1976	Qualitative (Presence/Absence)/250 ml
		Vibrio Parahaemolyticus	IS 5887 (Part 5): 1976	Qualitative (Presence/Absence)/250 ml
<b>4.</b>	<b>Purified Water</b>	Total Aerobic Microbial Count	USP 37/ IP 2014	Min 1 CFU/ml

#### **IV. DRUGS & PHARMACEUTICALS**

<b>1.</b>	<b>Atorvastatin Calcium Levofloxacin Hemihydrates Ciprofloxacin Estradiol Garcinia Cambogia Extract Ipecacuanha Liquid Extract Rauwolfia Extract</b>	Total Aerobic Microbial Count	USP 37/ IP 2014/ EP 2.6.13	Min 10 CFU/g
		Total Yeasts and Molds Count		Min 10 CFU/g
		Bile Tolerant Gram Negative Bacteria		Min 10 CFU/g



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	<b>Atorvastatin Calcium Levofloxacin Hemihydrates</b>	Escherichia Coli		Qualitative (Presence/Absence)/g
	<b>Ciprofloxacin Estradiol</b>	Staphylococcus Aureus		Qualitative (Presence/Absence)/g
	<b>Garcinia Cambogia Extract</b>	Pseudomonas Aeruginosa		Qualitative (Presence/Absence)/g
	<b>Ipecacuanha Liquid Extract</b>	Salmonella sp.		Qualitative (Presence/Absence)/g
	<b>Rauwolfia Extract</b>	Candida albicans		Qualitative (Presence/Absence)/g

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**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**.