

Laboratory Bhagavathi Ana Labs Pvt. Ltd., Central Laboratory, Plot Nos. 7-2-C/7 & 8, Sanath Nagar Industrial Estate, Sanath Nagar, Hyderabad, Telangana

Accreditation Standard ISO/IEC 17025: 2005

Discipline Biological Testing **Issue Date** 08.12.2014

Certificate Number T-1862 **Valid Until** 07.12.2016

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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				
1.	Animal feeds a) Animal Feed b) Poultry Feed	Coliforms	IS 5401(Part 1) :2002 ISO 4832: 1991 IS 5401 (Part 2) :2012 ISO 4831:2006	≥ 10 CFU per g ≥ 0.30 MPN to 110 MPN per ml or g
		Salmonella	IS 5887 (Part 3): 1999 (RA 2009) ISO 6579: 1993 FDA-BAM Chapter 5:2011	Qualitative (Present/Absent) per 25 g
2.	Coffee & Cocoa Products Soluble Coffee Powder	Bacterial Count (Aerobic microbial count) Yeast & Moulds	IS 5402: 2012 ISO 4833: 2003 IS 5403: 1999 (RA 2005)	≥ 10 CFU per g ≥ 10CFU per g
3.	Tea	Escherichia coli	IS 5887 (Part): 1976 (RA 2005) FDA-BAM, Chapter 4: 2013	≥ 10 CFU per g Qualitative (Present/Absent) per 25 g ≥ 3 MPN to 1100 MPN per ml or g
		Coliforms	IS 5401 (Part): 2002 ISO 4832: 1991 IS 5401 (Part 2): 2012 ISO 4831:2006 FDA-BAM, Ch. 4: 2013	≥ 10 CFU per g ≥ 0.30 MPN to 1100 MPN per ml or g Qualitative (Present/Absent) per 25 g

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4.	Milk & Dairy products a) Skimmed Milk Powder	Bacterial Count (Aerobic microbial count)	IS 5402: 2012	≥ 10 CFU per g
			ISO 4833: 2003	
	b) Condensed Milk	Yeast & Moulds	FDA: BAM, Chapter 3: 2001	≥ 1 CFU per ml
			IS 5403: 1999 (RA 2009)	≥ 10 CFU per g
	c)Milk-Cereal based complementary foods,	Coliforms	ISO 7954: 1987	≥ 10 CFU per g
			FDA-BAM, Chapter 18: 2001	≥ 10 CFU per g
	d)Infant milk substitute-	Coliforms	IS 5401 (Part 1): 2002	≥ 10 CFU per g
			ISO 4832: 1991	≥ 1 CFU per ml
	f)Products given FSS rules 2011, Appendix B, Table 2 for milk and its products.	<i>E. coli</i>	IS 5401 (Part 2): 2012	≥ 1 CFU per ml
			ISO 4831:2006 As per FDA-BAM, Chapter 4: 2013	≥ 0.30 MPN to 1100 MPN per ml or g
	Salmonella	FDA-BAM, Ch. 4: 2013	Qualitative (Present/Absent) per 25 g	
	Shigella	IS 5887 (Part 3):1999 (RA 2007) ISO 6579: 1993	Qualitative (Present/Absent) per 25 g	
	<i>Staphylococcus aureus</i> (coagulase positive)	BAM Chapter-6 2002	Qualitative (Present/Absent) per 25 g	
		IS 5887 (Part 2): 1976 (RA 2005) ISO 6888 (Part I):1999	≥10 CFU per g ≥ 1 CFU per ml	

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	Milk & Dairy products	Spore count-Aerobic (<i>Bacillus cereus</i>)	IS 5887 (Part 6) :2012 ISO 7932:200	≥10 CFU per g
	a) Skimmed Milk Powder	Spore count-Anaerobic	AOAC 17.7.02 (976.30): 2012	≥10 CFU per g
	b) Condensed Milk	(<i>Clostridium perfringens</i>)		≥ 1 CFU per ml
	Infant Foods			
	c)Milk-Cereal based complementary foods,		IS 5887 (Part 4):1999 (RA 2009)	≥10 CFU per g ≥ 1 CFU per ml
	d)Infant milk substitute-	<i>Listeria monocytogenes</i>	IS 14988 (Part 2 & Part): 2002, (RA 2009)	Qualitative (Present/Absent)
	f)Products given FSS rules 2011, Appendix B, Table 2 for milk and its products.		ISO 11290-1:1996/Amd 1:2004	per 25 g
5.	Fish & Sea Foods	<i>E. coli</i>	BAM, Chapter 4: 2013	Qualitative (Present/Absent) per 25 g
	Honey & Honey Products			
	Meat & Meat Products	Salmonella	IS 5887 (Part 3):1999 (RA 2005) ISO:6579: 1993	Qualitative (Present/Absent) per 25 g
	Eggs & Egg Products	Shigella	Method based on FDA-BAM Chapter-6 2002	Qualitative (Present/Absent) per 25 g
		<i>Staphylococcus aureus</i>	IS 5887(Part 8/Sec1) :2002 ISO 6888-1999-Part I, as per BAM Ch12:2001	10 CFU per g ≥ 1 CFU per ml Qualitative (Present/Absent) per 25 g

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	Fish & Sea Foods	<i>Vibrio cholerae</i>	BAM-Chapter 9:2004	3 MPN to 1100 MPN per g
	Honey & Honey Products			
	Meat & Meat Products	<i>Vibrio vulnificus</i>		3 MPN to 1100 MPN per g
	Eggs & Egg Products	<i>Vibrio parahaemolyticus</i>		3 MPN to 1100 MPN per g
		<i>Listeria monocytogenes</i>	IS 14988 (Part 2): 2002 (RA 2012) ISO 11290:1996, Amend.2004	Qualitative (Present/Absent) per 25 g
		<i>Clostridium perfringens</i>	IS 5887 (Part 4): 1999 (RA 2005) ISO:7937:2004	Qualitative (Present/Absent)per 50 g ≥ 10 CFU per g
		Coliforms	BAM, Chapter 4: 2013 IS 5401 (Part 1 & 2): 2002	0.30 MPN to 1100 MPN per ml or g ≥ 10 CFU per g
		Total plate count	IS 5402: 2012 ISO 4833: 2003	≥ 10 CFU per g
5	Fruits & Vegetable Products	Bacterial Count (Total Plate count)	IS 5402: 2012 ISO 4833: 2003	≥ 10 CFU per g
	Fruit Juices & Concentrates	Coliforms	IS 5401 (Part 1) :2002 ISO 4832: 1991 (RA 2009)	≥ 10 CFU per g ≥ 1 CFU per ml
	Viz			
	a) Grapes			
	b) Pomegranates	Yeast & Moulds	IS 5403: 1999 (RA 2009) ISO 7954: 1987	≥ 10 CFU per g
	c)Cabbage			
	d) Fruit juice			
	e) Fruit pulp	Escherichia coli	BAM, Chapter 4: 2013	Qualitative (Present/Absent) per 25 g

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	Fruits & Vegetable Products	<i>Flat sour organisms</i>	APHA-Compendium-Microbiological examination of foods, Ch.25 & Ch.62 :2001	≥ 10 CFU per g
	Fruit Juices & Concentrates			
	Viz	<i>Staphylococcus aureus</i>	ISO 6888 (Part 1): 1999 IS 5887 (Part 8/Sec 1):2002 (RA 2009)	≥ 10 CFU per g
	a) Grapes			
	b) Pomegranates			
	c)Cabbage			
	d) Fruit juice	Salmonella	IS 5887 (Part 3):1999 (RA 2009) ISO 6579: 1993	Qualitative (Present/Absent) per 25 g
	e) Fruit pulp	Shigella	BAM Chapter-6 -2012	Qualitative (Present/Absent) per 25 g
		<i>Vibrio cholerae</i>	IS 5887 (Part 5):1976 (RA 2005) Compendium-Microbiological examination of foods, 2001 & BAM-Ch. 9	Qualitative (Present/Absent) per 25 g
6.	Herbs, Spices & Condiments	Bacterial Count (Total Plate count)	IS 5402: 2012 ISO 4833: 2003	≥ 10 CFU per g
		Coliforms	IS 5401 (Part 1) :2002 ISO 4832: 1991	≥ 10 CFU per g
		Yeast & Moulds	IS 5403: 1999 ISO 7954: 1987	≥ 10 CFU per g
		Escherichia coli	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present/Absent) per 25 g

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	Herbs, Spices & Condiments	<i>Staphylococcus aureus</i>	ISO 6888 (Part 1): 1999 IS 5887 (Part 8): 1976 (RA 2005) IS 5887 (Part 2): 1976 (RA 2005)	≥ 10 CFU per g Qualitative (Present/Absent) per 25 g
		Salmonella	IS 5887 (Part 3):1999 (RA 2009) ISO 6579: 1993	Qualitative (Present/Absent) per 25 g
		Shigella	IS 5887 (Part 7): 1999 (RA 2005)	Qualitative (Present/Absent) per 25 g
		Anaerobic spore count (Cl.perfringens)	IS 5887 (Part 4): 1999 (RA 2009)	≥10 CFU per g ≥ 1 CFU per ml
		<i>Listeria monocytogenes</i>	IS 14988 (Part 2):2002 (RA 2012) ISO 11290:1996, Amend.2004	≥10 CFU per g
7.	Beverages (Alcoholic / Non-Alcoholic) a) Soft drinks b) Carbonated beverages	Bacterial Count (Total Plate count)	IS 5402: 2012 ISO 4833: 2003	≥ 1 CFU per ml
		Coliforms	IS 5401 (Part 1):2002 ISO 4832: 1991 IS 5401 (Part 2):2012 ISO 4831:2006 BAM, Chapter 4: 2013	0.30 MPN to 110 MPN ml ≥ 1 CFU per ml Qualitative (Present/Absent) per 100 ml
		Yeast & Moulds count	IS 5403: 1999 ISO 7954: 1987	≥ 1 CFU per ml

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8.	Nuts & nut products	Bacterial Count (Total Plate count)	IS 5402: 2012 ISO 4833: 2003	≥ 10 CFU per g
		Coliforms	IS 5401 (Part 1): 2002 ISO 4832: 1991	≥ 10 CFU per g
		Yeast & Moulds	IS 5403: 1999/ ISO 7954: 1987	≥ 10 CFU per g
		Escherichia coli	IS 5887 (Part 1):1976 (RA 2005)	Qualitative (Present/Absent) per 25 g
9.	Canned & Processed Foods	Bacterial Count (Total Plate count)	IS 5402: 2012 ISO 4833: 2003	≥ 10 CFU per g
		Coliforms	IS 5401 Part 1:2002 ISO 4832: 1991	≥ 1 CFU per ml
		Yeast & Moulds	IS 5403: 1999 RA2009 ISO 7954: 1987	≥ 10 CFU per g
		<i>Escherichia coli</i>	IS 5887 (Part 1):1976 (RA 2005)	Qualitative (Present/Absent) per 25 g
		Faecal Streptococci	IS 5887 (Part 2): 1976 (RA 2009)	0.30 MPN to 110 MPN per g
		<i>Staphylococcus aureus</i>	ISO 6888 (Part 1): 1999 IS 5887 (Part 8):1976 (RA 2005) IS 5887 (Part 2):1976 (RA 2005)	≥ 10 CFU per g Qualitative (Present/Absent) per 25 g

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	Canned & Processed Foods	Salmonella	IS 5887 (Part 3):1999 (RA 2009) ISO 6579: 1993	Qualitative (Present/Absent) per 25 g
10.	Other Specified Food Items Plant Extracts per Herbal products	Total microbial count (bacterial and fungal count)	Ayurvedic Pharmacopoeia of India, Section 2.4, Part-II, Vol-II, First Edn	≥ 10 CFU per g
		Yeast & Mould plate count	Ayurvedic Pharmacopoeia of India, Section 2.4, Part-II, Vol-II, First Edn	≥ 10 CFU per g
		<i>Staphylococcus aureus</i>	Ayurvedic Pharmacopoeia of India, Section 2.4, Part-II, Vol-II, First Edn	≥ 10 CFU per g
		<i>Escherichia coli</i>	Ayurvedic Pharmacopoeia of India, Section 2.4, Part-II, Vol-II, First Edn	Qualitative (Present/Absent) per 25 ml or g
		Coliforms	Ayurvedic Pharmacopoeia of India, Section 2.4, Part-II, Vol-II, First Edn	≥ 10 CFU per g 0.30 MPN to 110 MPN per g
		Salmonella	Ayurvedic Pharmacopoeia of India, Section 2.4, Part-II, Vol-II, First Edn	Qualitative (Present/Absent) per 25 ml or g
		<i>Pseudomonas aeruginosa</i>	Ayurvedic Pharmacopoeia of India, Section 2.4, Part-II, Vol-II, First Edn.	Qualitative (Present/Absent) per 1 g

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II.	WATER			
1.	Packaged Natural Mineral Water	Bacterial Count (Aerobic microbial count)	IS 5402: 2012 ISO 4833: 2003	≥ 1 cfu per ml
	Packaged drinking water		IS 1622: 1981 ISO 6222	≥ 1 cfu per ml
	Drinking water	Coliforms and E.coli	IS 15185: 2002 ISO 9308-1 & 2: 2000	Qualitative (Present/Absent) per 250 ml
	Water for Processed Food Industry		IS 15185/ ISO 9308-1 IS 1622: 1981	Qualitative (Present/Absent) per 100 ml 1 MPN to 16 MPN per 100 ml
		Enterococci/Faecal streptococci	IS 15186:2002 (RA 2009)	Qualitative (Present/Absent) per 250 ml or 100ml
		Yeasts & Moulds	IS 5403:1999 (RA 2009)	Qualitative (Present/Absent) per 250 ml
		<i>Pseudomonas aeruginosa</i>	IS 13428:2005 Annex D ISO 16266:2006	Qualitative (Present/Absent) per 250 ml Qualitative (Present/Absent) per 100 ml
		Shigella	IS 5887 (Part 7):1999 (RA 2009)	Qualitative (Present/Absent) per 250 ml

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	Packaged Natural Mineral Water	Sulphite reducing Anaerobes	IS 13428:2005 Annex C	Qualitative (Present/Absent) per 50 ml
	Packaged drinking water	<i>Vibrio cholera</i>	IS 5887 (Part 5) :1976 (RA 2009)	Qualitative (Present/Absent) per 250 ml
	Drinking water	<i>Vibrio parahaemolyticus</i>	IS 5887 (Part 5)1976 (RA 2009)	Qualitative (Present/Absent) per 250 ml
	Water for Processed Food Industry	Slime forming bacteria	IS 1622: 1981 (RA 2009)	Qualitative (Present/Absent)
		Thermophilic organisms (55oC)	IS 4251: 1967 (RA 2009) Appendix B	≥ 1 CFU per ml
		Proteolytic and lipolytic organism count	IS 425: 1967 (RA 2009) Appendix A	≥ 1 CFU per ml
		Clostridium perfringens	OJEU(OJEC) 98/83/EC of 3 Nov.1998	Qualitative (Present/Absent) per 100 ml

-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**.

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Convenor

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