

Laboratory	Intertek India Private Limited (Food Services), #68, Udyog Vihar Phase-I, Gurgaon		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Biological Testing	Issue Date	19.08.2013
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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
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I. FOOD AND AGRICULTURAL PRODUCTS

1.	Honey IS:4941:1994 Reaf-2008	Pollen grains (Total count of pollen & plant element count/gm)	IS:4941:1994 Reaf-2009	≥ 100
2.	Bakery and Confectionery products (Biscuit protein rich nutrition (IS:7487-1986 RA 2005), Wheat flour biscuit industry (IS:7463-2004 RA 2009), Baker yeast (IS:1320:1988 RA 2002), Bread (IS:1960-1979 RA 2005), Wheat meal (IS:1483-1988 RA 2005), Bread white milk (IS:11231-1985 RA 2005), Food yeast (IS:3839-1989 RA 2005), Chocolate (IS:1163:1992 RA 2009) & Chewing gum, Bubble gum, Hard-boiled confectionery, Toffees, Gum Base etc). Chocolate powder, chocolate liquor, Cocoa powder and cocoa butter	Aerobic Plate Count Yeast & Mould Count Coliform Count Enumeration of <i>E. coli</i> Detection of <i>E. coli</i> Micro flora other than yeast Bacterial rope spore Detection of <i>Shigella</i> spp. Detection of <i>Salmonella</i> spp.	IS: 5402 – 2012 Reaf-2007, ISO:4833-1991, BAM 2001 (Chap-3) IS: 5403-1999 Reaf-2005, ISO:7954-1987, BAM 2001 (Chap-18) IS: 5401 Part-1- 2002 Reaf-2007, ISO:4831-1991 IS:5401Part-1-2012 Reaf-2007, BAM - 2002 (Chap-4) IS: 5887 Part-1-1976 Reaf-2005 BAM – 2002(Chap-4) IS: 5887 Part -1-1976 Reaf-2005 IS:3839-1989 Reaf-2005 IS 7463(Annex B)-2004 IS: 5887 Part- 7– 999 Reaf-2005, BAM 2001 (Chap-6) IS: 5887 Part -3-1999 Reaf-2005, ISO: 6579 – 1993, BAM 2007 (Chap 5)	≥ 10 cfu/gm ≥ 10 cfu/gm ≥ 10 cfu/gm ≥ 3.0 MPN/gm ≥ 10 cfu/gm ≥ 3.0 MPN/gm Absent/Present/25gm ≥ 10 cfu/gm ≥ 10 cfu/gm Absent/Present/25gm Absent/Present/25gm

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3.	Fish & Sea food - (Prawns, Shrimp, fish Lobster, Dried fish, Octopus)	<i>E.coli</i>	ISO 16649-2:2002/ IS :5887 Part -1-1976 MPN technique	≥10 cfu/gm ≥3.0 MPN/gm
		Coliform bacteria	IS: 5401 Part -1 2012 ISO 4831: 2006 MPN technique/ IS: 5401 Part -2 2012	≥10 cfu/gm ≥ 3.0 MPN/gm
		Faecal Streptococci	IS: 5887 Part -2:1976	≥10 cfu/gm
		<i>Clostridium perfringens</i>	IS: 5887 Part -4:1999	Absent /Present/ 25 gm
		Total plate count	ISO:4833-2003/ IS: 5402:2012	≥10 cfu/gm
		<i>Salmonella</i>	ISO 6579: 2002/ IS: 5887 Part 3:1999	Absent /Present/ 25 gm
		<i>Vibrio cholerae, V. parahaemolyticus</i>	ISO/TS 21872 -1:2007 IS: 5887 Part-5: 1976	Absent /Present/ 25 gm
		<i>Listeria monocytogens</i>	ISO 11290-1:1996 IS: 14988 Part -1: 2001	Absent /Present/ 25 gm
			ISO 11290-2:1996/ IS: 14988 Part 2 :2001	≥10 cfu/gm
		Enterobacteriaceae	ISO 21528 – 2: 2004/ ISO 7402: 1993 ISO 21528 – 1:2004	≥10 cfu/gm Absent /Present/ 25 gm
	Yeast & Mould	ISO:21527:2008/ IS: 5403:1999	≥10 cfu/gm	

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	Fish & Sea food - (Prawns, Shrimp, fish Lobster, Dried fish, Octopus)	<i>Bacillus cereus</i>	IS: 5887 Part- 6: 2012	≥10 cfu/gm
		<i>Shigella</i>	ISO 21567:2004/ IS: 5887 Part 7:1999	Absent /Present/ 25 gm
		<i>Staphylococci coagulase positive</i>	ISO 6888 -1: 1999/ IS: 5887 Part 2:1976	≥10 cfu/gm
4.	Infant Foods Baby Food Weaning Food Dietary Supplements	TPC	IS:5402:2002/ ISO:4833-2003	≥10 cfu/gm
		Coliform	IS:5401 P-1:2002/ ISO 4831-2006 MPN technique/ IS: 5401 Part-2: 2012	≥10 cfu/gm ≥ 3.0 MPN/gm
		<i>E.coli</i>	IS: 5887 Part-1:1976/ ISO 16649-2:2002 MPN technique	≥10 cfu/gm ≥ 3.0 MPN/gm
		<i>S.aureus</i>	IS: 5887 Part -2:1976 / ISO 6888 -1: 1999	≥10 cfu/gm
		<i>Salmonella</i>	IS: 5887 Part-3:1999/ ISO 6785-2001	Absent /Present/25 gm
		<i>Shigella</i>	IS: 5887 Part -7:1999	Absent /Present/25 gm
		Yeast and Mold	IS:5403 Part -1:1999/ ISO: 21527-Part-1: 2008	≥10 cfu/gm
		<i>V.cholerae</i>	IS: 5887 Part 5 1976/ ISO/TS 21872 -1:2007	Absent /Present/25 gm
		<i>V. parahaemolyticus</i>	IS: 5887 Part 5:1976/ ISO/TS 21872 -1:2007	Absent /Present/25 gm

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	Infant Foods	<i>F.streptococci</i>	IS: 5887 Part -2:1976	≥ 10 cfu/gm
	Baby Food	<i>Listeria monocytogenes</i>	IS: 14988 Part -1:2001/ ISO 11290-1: 2001	Absent /Present/ 25 gm
	Weaning Food	Anaerobic spore count	Compendium APHA 4 th Edition	≥10 cfu/gm
	Dietary Supplements	<i>Clostridium perfringens</i>	IS: 5887 Part -4:1999	≥10 cfu/gm
		<i>Bacillus cereus</i>	IS: 5887 Part – 6:2012	≥10 cfu/gm
		<i>Enterobacteriaceae</i>	ISO 21528-2: 2004 IS 7402: 1993 ISO 21528-1: 2004	≥10 cfu/gm Absent /Present/ 25 gm
		Cronobacter/ Enterobacteriaceae Sakazakii	ISO 22964: 2006	Absent /Present/ 25 gm
5.	Spices and condiments	<i>Salmonella</i>	IS: 5887 Part -3:1999/ ISO 6579: 2002	Absent /Present/ 25 gm
		<i>Shigella</i>	IS: 5887 Part -7:1999	Absent /Present/ 25 gm
		TPC	IS: 5402: 2012/ ISO: 4833-2003	≥10 cfu/gm
		Coliform	IS: 5401 Part 1: 2002/ ISO 4832:2006 MPN technique/ ID: 5401 Part-2: 2012	≥10 cfu/gm ≥ 3.0 MPN/gm
		<i>E.coli</i>	IS: 5887 P-1:1976/ ISO 16649-2:2002 MPN technique	≥10 cfu/gm ≥ 3.0 MPN/gm

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	Spices and condiments	Yeast and mould	IS: 5403: 1999/ ISO: 21527 Part-1: 2008	≥10 cfu/gm
		Faecal <i>Streptococci</i>	IS: 5887 Part 2: 1976	≥10 cfu/gm
		<i>S.aureus</i>	IS: 5887 Part 2: 1976 / ISO 6888-1: 1999	≥10 cfu/gm
		<i>B.cereus</i>	IS 5887 Part-6: 2012	≥10 cfu/gm
		Enterobacteriaceae	ISO: 21528-2:2004 IS 7402: 1993 ISO 21528-1: 2004	≥10 cfu/gm Absent /Present/ 25 gm
		Faecal coliform	USFDA BAM Chapter 4	≥ 3.0 cfu/gm
		<i>Clostridium perfringens</i>	IS: 5887 Part -4:1999	≥10 cfu/gm
		Anaerobic Spore Count	Compendium APHA 4 th Edition	≥10 cfu/gm
		<i>Vibrio cholera</i>	IS: 5887 Part -5:1976/ ISO/TS 21872-1: 2007	Absent /Present/ 25 gm
		<i>V. parahaemolyticus</i>	IS: 5887 Part-5:1976/ ISO/TS 21872-1: 2007	Absent /Present/ 25 gm
		<i>Listeria monocytogenes</i>	ISO 11290-1: 1996 IS: 14988 Part-1: 2001	Absent /Present/ 25 gm
6.	Cereals & Pulses	<i>E.coli</i>	IS: 5887 Part-1: 1976/ ISO 16649-2: 2002 MPN Technique	≥10 cfu/gm ≥ 3.0 MPN/gm
		<i>Salmonella</i>	IS: 5887 Part-3:1999/ ISO 6579: 2002	Absent /Present/ 25 gm

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	Cereals & Pulses	<i>Shigella</i>	IS: 5887 Part 7:1999	Absent /Present/ 25 gm
		TPC	IS: 5402: 2012/ ISO 4833-2003	≥10 cfu/gm
		Coliform	IS: 5401 Part -1:2002, ISO 4832: 2006 MPN technique IS: 5401 Part-2: 2012	≥10 cfu/gm ≥ 3.0 MPN/gm
		Yeast and mould	IS: 5403: 1999/ ISO 21527 Part-1: 2008	≥10 cfu/gm
		<i>Feacal streptococci</i>	IS: 5887 Part -2: 1976	≥10 cfu/gm
		<i>S.aureus</i>	IS: 5887 Part -2:1976/ ISO 6888-1-1999	≥10 cfu/gm
		<i>B.cereus</i>	IS: 5887 Part -6: 2012	≥10 cfu/gm
		Enterobacteriaceae	ISO: 21528-2:2004 ISO 7402: 1993 ISO 21528-1: 2004	≥10 cfu/gm Absent /Present/ 25 gm
		Faecal coliform	USFDA BAM Chapter 4	≥3.0 MPN/gm
		<i>V.cholerae</i>	IS: 5887 Part -5:1976/ ISO/TS 21872-1: 2007	Absent /Present/ 25 gm
		<i>V. parahaemolyticus</i>	IS: 5887 Part -5:1976/ ISO/TS 21872-1: 2007	Absent /Present/ 25 gm
		<i>Listeria monocytogenes</i>	IS: 14988 Part-1: 2001 ISO 11290-1: 1996	Absent /Present/ 25 gm

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7.	Cereal Based Products	TPC	IS: 5402 – 2012/ ISO:4833-2003	≥10 cfu/gm
		Coliform	IS: 5401(P-1)- 2002/ ISO 4831-2006 MPN technique IS 5401 Part-2: 2012	≥10 cfu/gm ≥ 3.0 MPN/gm
		<i>E.coli</i>	IS: 5401 -2012/ ISO 4831-2006 MPN Technique	≥10 cfu/gm ≥ 3.0 MPN/gm
		Yeast and Mold	IS: 5403:1999/ ISO: 21527 Part-1: 2008	≥10 cfu/gm
		<i>Salmonella</i>	IS: 5887 Part 3: 1999/ ISO 6579: 2002	Absent /Present/ 25 gm
8.	Milk & Dairy Products	TPC	IS: 5402 –2012 / ISO:4833-2003	≥10 cfu/gm
		Coliform	IS: 5401 Part-1- 2002/ ISO:4831-2006 MPN technique IS 5401 Part-2-2012	≥10 cfu/gm ≥ 3.0 MPN/gm
		<i>E.coli</i>	IS: 5887 Part 1-1976 / ISO 16649-2: 2002 MPN technique	≥10 cfu/gm ≥ 3.0 MPN/gm
		Feacal coliform	USFDA BAM Chapter 4	≥ 3.0 MPN/gm
		Yeast and Mold	IS: 5403: 1999/ ISO: 21527 Part-1: 2008	≥10 cfu/gm

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	Milk & Dairy Products	<i>S.aureus</i>	IS: 5887 Part -2 1976/ ISO 6888-1: 1999	≥10 cfu/gm
		<i>F.streptococci</i>	IS: 5887 Part -2: 1976	≥10 cfu/gm
		<i>Salmonella</i>	IS: 5887 Part -3: 1999/ ISO 6758-2001	Absent /Present/ 25 gm
		<i>Shigella</i>	IS: 5887 Part 7 :1999	Absent /Present/ 25 gm
		<i>V.cholera</i>	IS: 5887 Part -5 :1976/ ISO/TS 21872-1: 2007	Absent /Present/ 25 gm
		<i>V. parahaemolyticus</i>	IS: 5887 Part -5:1976/ ISO/TS 21872-1: 2007	Absent /Present/ 25 gm
		<i>Bacillus cereus</i>	IS: 5887 Part -6: 2012	≥10 cfu/gm
		<i>Cl.perfringens</i>	IS: 5887 Part -4:1999	≥10 cfu/gm
		Sulphite reducing bacteria	ISO 15213:2003	≥10 cfu/gm
		Lactic acid bacteria	IS: 12899:1989	≥10 cfu/gm
		Enterobacteriaceae	ISO: 21528-2:2004 IS 7402: 1993 ISO 21528-1: 2004	≥10 cfu/gm Absent /Present/ 25 gm
		<i>Listeria monocytogenes</i>	ISO 11290-1: 1996/ IS: 14988 Part-1: 2001	Absent /Present/ 25 gm
		<i>Mesophilic spore count</i>	Compendium APHA 4 th Edition	≥10 cfu/gm
		<i>Thermophilic spore count</i>	Compendium APHA 4 th Edition	≥10 cfu/gm

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9.	Meat and Meat Products	Total Plate Count	IS: 5402 – 2002/ ISO 4833-2003	≥10 cfu/gm
		Coliform	IS: 5401 Part-1: 2002/ ISO 4831-2006 MPN technique IS 5401 Part-2: 2012	≥10 cfu/gm ≥ 3.0 MPN/gm
		<i>E.coli</i>	IS: 5887 (Part I)-1976/ ISO 16649-2: 2002 MPN technique	≥10 cfu/gm ≥ 3.0 MPN/gm
		Salmonella	IS: 5887 Part -3: 1999/ ISO 6579: 29002	Absent /Present/ 25 gm
		Shigella	IS: 5887 Part-7: 1999	Absent /Present/ 25 gm
		<i>Staphylococcus aureus</i>	IS: 5887 Part-2: 1976/ ISO 6888-1-1999	≥10 cfu/gm
		<i>Clostridium perfringens</i>	IS:5887 Part -4:1999	≥10 cfu/gm
		<i>Bacillus cereus</i>	IS:5887 Part-6: 2012	≥10 cfu/gm
		Enterobacteriaceae	ISO 21528 – 2: 2004/ IS 7402-1993 ISO 21528 – 1:2004	≥10 cfu/gm Absent /Present/ 25 gm
		Yeast and Mould	IS: 5403: 1999/ ISO: 21527 Part-1: 2008	≥10 cfu/gm
		<i>Listeria monocytogenes</i>	ISO 11290-1:1996 IS 14988 Part-1: 2008	Absent /Present/ 25 gm

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	Meat and Meat Products	Feacal Streptococci	IS: 5887 Part-2:1976	≥10 cfu/gm
		<i>V.cholerae</i>	IS: 5887 Part -5:1976/ ISO/TS 21872-1: 2007	Absent /Present/ 25 gm
		<i>V. parahaemolyticus</i>	IS: 5887 Part -5 :1976/ ISO/TS 21872-1: 2007	Absent /Present/ 25 gm
II. WATER				
1.	Packaged Drinking Water IS:14543-2004, Reaf-2008	Detection of <i>E. coli</i>	IS: 5887 (Part I)-1976, Reaf-2005, IS:15185-2002, ISO:9308-1:2000 Reaf.2007	Absent / Present per 250 ml
	Packaged Natural Mineral IS:13428-2005 (Amend-2) Reaf-2009	Detection of Coliform	IS:5401(Part-1)-2002 IS:15185-2002, ISO:9308-1 :2000 Reaf.2007	Absent / Present per 250 ml
		Detection of Faecal <i>streptococci</i>	IS:5887(Part-2)-1976, IS:15186-2002, ISO:7899-2:2000 Reaf.-2007	Absent / Present per 250 ml
		Detection of <i>S. aureus</i>	IS:5887(Part-2)-1976, IS:15186-2002, ISO:7899-2:2000 Reaf.-2007	Absent / Present per 250 ml
		Detection of <i>Salmonella spp.</i>	IS: 15187: 2002	Absent / Present per 250 ml
		Detection of <i>Shigella spp.</i>	IS: 5887 (Part 7)-1999 Reaf-2005	Absent / Present per 250 ml
		<i>Detection of Yeast and Mould</i>	IS: 5403-1999 Reaf-2005, ISO:7954-1987	Absent / Present per 250 ml

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	Packaged Drinking Water IS:14543-2004, Reaf-2008	Detection of <i>V. parahaemolyticus</i> <i>Vibrio cholera</i>	IS: 5887 (V):1976 Reaf-2005	Absent / Present per 250 ml
	Packaged Natural Mineral IS:13428-2005 (Amend-2) Reaf-2009	Detection of Sulphite Reducing Anaerobes	IS:13428-2005 Annex-C Reaf-2009	Absent/ Present per 50 ml
		Detection of Pseudomonas aeruginosa	IS:13428-2005 Annex-D Reaf-2009	Absent Present per 250 ml
		Aerobic Plate Count (at 20-22° C 72 hrs and at 37° C 24 hrs)	IS: 5402-2002/ ISO:4833-1991	≥1 cfu/ml
2.	Water for Processed food industry IS 4251 - 1967 Reaf-2009	Coliform	IS: 1622 - 1981 Reaf-2009	1.8 MPN/100 ml
		Thermophilic Bacteria Count	IS: 4251 - 1967 Reaf-2009	≥1 cfu/ml
		Proteolytic & Lipolytic organisms	IS: 4251 - 1967 Reaf-2009	≥1 cfu/ml
3.	Drinking water IS:10500-1991 Reaf-2009	Coliform	IS: 1622 - 1981 Reaf-2009	1.8MPN/100 ml
		<i>E. coli</i>	IS: 1622 - 1981 Reaf-2009	1.8 MPN/100 ml

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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 as per IS:13428.**