

Laboratory	Export Inspection Agency, Laboratory-Pilot Test House, E-3, MIDC, Andheri (East), Mumbai, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Biological Testing	Issue Date	23.04.2014
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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. Fish & Seafood	Total Plate Count/ Aerobic Plate Count	USFDA BAM, Chapter-.3, Jan. 2001	≤10cfu/gm
	Escherichia coli	IS 5887, Part-1, RA 2005, USFDA BAM, Chapter-4, Sep. 2003 ISO:16649	≤10 cfu/gm, <3 to >1100 MPN/g
	Staphylococcus aureus	USFDA BAM, Chapter 12, Jan. 2001	≤10cfu/gm
	Salmonella spp.	USFDA BAM, Chapter 5, Feb. 2014, ISO:6579, IS 5887, Part-3	Present / Absent in 25g
	Vibrio spp. (Vibrio cholera)	USFDA BAM, Chapter -9, May-2004 IS 5887, Part-5, RA 2005, ISO:21872-1	Present / Absent in 25g
	Vibrio spp. (Vibrio parahaemolyticus)	USFDA-BAM, Chapter-9, Feb. 2014 IS 5887, Part-5, RA 2005 ISO:21872-1	Present / Absent in 25g
	Vibrio spp. (Vibrio Alginolyticus)	USFDA-BAM, Chapter-9, Feb. 2014	Present / Absent in 25g

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		Listeria monocytogenes	USFDA BAM, Chapter-10, April-2011 ISO:11290-1	Present / Absent in 25g
		Shigella spp.	USFDA BAM, Chapter-6, Jan -2001 ISO:21567	Present / Absent in 25g
		Bacillus cereus	USFDA BAM, Chapter-14, Jan -2001	≤10cfu/g
		Enterobacteriaceae	IS 7402:1993	≤10 cfu/gm
		Yeast & Mould	USFDA-BAM, Chapter 18, April-2001	≤10cfu/gm
		Clostridium perfringens	USFDA-BAM, Chapter-16, Jan -2001	≤10cfu/gm, Present / Absent/gm
		Coliform	USFDA-BAM, Chapter-4, Sep. 2002,	<3 to >1100 MPN/g ≤10 cfu/g
		Faecal Coliform	USFDA-BAM, Chapter-4, Sep. 2002	<3 to >1100 MPN/g
		Faecal Streptococci	IS 5887-1976, Part-2	≤10cfu/g
		Bacterial Inhibitors	Premi Test Method RI.No.060601	Present/Absent

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2.	Milk & Dairy Products	Total plate count/Aerobic plate count	USFDA BAM, Chapter-3, Jan.2001	≤10cfu/gm
		Escherichia coli	USFDA BAM, Chapter -4, Sep.2003	≤10cfu/gm, <3 to >1100 MPN/g
		Staphylococcus aureus	USFDA BAM, Chapter- 12, Jan. 2001	≤10cfu/gm
		Salmonella spp.	USFDA BAM, Chapter-5, Feb. 2014, ISO:6579, IS 5887, Part-3	Present / Absent in 25g
		Vibrio spp. (Vibrio cholera)	USFDA-BAM, Chapter -9, May-2004 IS 5887, Part-5, RA 2005, ISO:21872-1	Present / Absent in 25g
		Vibrio spp. (Vibrio parahaemolyticus)	USFDA-BAM, Chapter -9, May. 2014 IS 5887 (Part-5), RA 2005 ISO:21872-1	Present / Absent in 25g
		Vibrio spp. (Vibrio Alginolyticus)	USFDA-BAM, Chapter-9, Feb. 2014	Present / Absent in 25g
		Listeria monocytogenes	USFDA BAM, Chapter-10, April-2011 ISO:11290-1	Present / Absent in 25g

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		Shigella spp.	USFDA BAM, Chapter-6, Jan -2001 ISO:21567	Present / Absent in 25g
		Bacillus cereus	USFDA BAM, Chapter-14, Jan -2001	≤10cfu/g
		Enterobacteriaceae	ISO:21528-2	≤10 cfu/gm
		Yeast & Mould	USFDA-BAM, Chapter 18, April-2001	≤10cfu/gm
		Clostridium perfringens	USFDA-BAM, Chapter-16, Jan. 2001	≤10cfu/gm, Present / Absent/gm
		Coliform	USFDA-BAM, Chapter-4, Sep. 2002	<3 to >1100 MPN/g ≤10 cfu/g
		Faecal Coliform	USFDA-BAM, Chapter-4, Sep. 2002	<3 to >1100 MPN/g
		Faecal Streptococci	IS 5887-1976, Part-2	≤10cfu/g
3.	Meat & Meat Products	Total plate count/Aerobic plate count	USFDA BAM, Chapter-3, Jan.2001	≤10cfu/gm
		Escherichia coli	USFDA BAM, Chapter-4, Sep.2003	≤10cfu/gm, <3 to >1100 MPN/g

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		Staphylococcus aureus	USFDA BAM, Chapter 12, Jan.2001	≤10cfu/gm
		Salmonella spp.	USFDA BAM, Chapter 5, Feb. 2014, ISO:6579, IS 5887 (Part-3)	Present / Absent in 25g
		Vibrio spp. (Vibrio cholera)	USFDA-BAM, Chapter-9, May-2004 IS 5887 (Part-5), RA 2005, ISO:21872-1	Present / Absent in 25g
		Vibrio spp. (Vibrio parahaemolyticus)	USFDA-BAM, Chapter-9, May. 2014 IS 5887 (Part-5), RA 2005 ISO:21872-1	Present / Absent in 25g
		Vibrio spp. (Vibrio alginolyticus)	USFDA-BAM, Chapter-9, Feb. 2014	Present / Absent in 25g
		Listeria monocytogenes	USFDA BAM, Chapter-10, April-2011 ISO:11290-1	Present / Absent in 25g
		Shigella spp.	USFDA BAM, Chapter-6, Jan -2001 ISO:21567	Present / Absent in 25g
		Bacillus cereus	USFDA BAM, Chapter-14, Jan -2001	≤10cfu/g

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		Enterobacteriaceae	ISO:21528-2	≤10 cfu/gm
		Yeast & Mould	USFDA-BAM, Chapter-18, April-2001	≤10cfu/gm
		Clostridium perfringens	USFDA-BAM, Chapter-16, Jan. 2001	≤10cfu/gm, Present / Absent/gm
		Coliform	USFDA-BAM, Chapter-4, Sep. 2002	<3 to >1100 /MPN/g ≤10 cfu/g
		Faecal Coliform	USFDA-BAM, Chapter-4, Sep. 2002	<3 to >1100 /MPN/g
		Faecal Streptococci	IS 5887-1976, Part-2	≤10cfu/g,
4.	Nuts & Nuts products (Ground nut, Raisins, dates, dry fruits & nuts, Cashew, Pasta, Almonds, chikkies)	Total plate count	USFDA BAM, Chapter-3, Jan.2001	≤ 10cfu/gm
		Escherichia coli	USFDA BAM, Chapter-4, Sep.2003	≤10cfu/gm
		Staphylococcus. aureus	USFDA BAM, Chapter-12, Jan.2001	≤ 10cfu/gm
		Yeast & Mould	USFDA-BAM, Chapter-18, April-2001	≤10cfu/gm

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		Salmonella spp.	USFDA BAM, Chapter-5, Feb. 2014 ISO:6579, IS 5887 (Part-3)	Present / Absent in 25g
		Shigella spp.	USFDA BAM, Chapter-6, Jan -2001 ISO:21567	Present / Absent in 25g
5.	Herbs ,Spices & Condiments (Whole- Chilli, Turmeric, Cumin, Coriander, Cloves, Asafoetida, Black paper, Ground – Chilli powder, Turmeric, Cumin, Coriander, Curry, Masala Mix, Gravies, Pickles, Sambhar masala, Pav bhaji masala, chat masala, chole masala, garam masala)	Total plate count	USFDA BAM, Chapter-3, Jan.2001	≤10cfu/gm
		Escherichia coli	USFDA BAM, Chapter-4, Sep.2003	≤10cfu/gm
		Staphylococcus. aureus	USFDA BAM, Chapter 12, Jan.2001	10cfu/gm
		Salmonella	USFDA BAM, Chapter 5, Feb. 2014, ISO:6579, IS 5887 (Part-3)	Present / Absent in 25g
		Bacillus cereus	USFDA BAM, Chapter-14, Jan -2001	≤10cfu/g
		Yeast & Mould	USFDA-BAM, Chapter 18, April-2001	≤10cfu/gm
		Coliform	USFDA BAM, Chapter-4, Sep.2003	<3 to >1100 MPN/g ≤10cfu/g

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6.	Vegetables and Vegetable products (, Chutney, Sauces, Ketchups, Ready to eat vegetables, Canned fruit & vegetables, Dehydrated, Instant drink powder, Jam, Jellies, pickles, vegetable soup powders, tooty fruity)	Total plate count	USFDA BAM, Chapter-3, Jan.2001,	≤ 10cfu/gm
		Escherichia coli	USFDA BAM, Chapter-4, Sep.2003	≤ 10 cfu/gm
		Staphylococcus. aureus	USFDA BAM, Chapter-12, Jan.2001	≤10 cfu/gm
		Salmonella spp.	USFDA BAM, Chapter-5, Feb. 2014, ISO:6579, IS 5887 (Part-3)	Present / Absent in 25g
		Vibrio (Vibrio Cholera)	IS 5887 (Part 5), RA:2005 USFDA-BAM, Chapter-9, May-2004	Present / Absent in 25g
		Yeast & Mould	USFDA-BAM, Chapter-18, April-2001	≤10 cfu/gm
7.	Fruit & Fruit Products (Fruit pulp, Juice, Instant drink powder)	Total plate count	USFDA BAM, Chapter-3, Jan.2001	≤10 cfu/gm or ≤ 1 cfu/ml
		Escherichia coli	USFDA BAM, Chapter-4, Sep.2003	≤10cfu/gm or ≤ 1 cfu/ml
		Staphylococcus. aureus	USFDA BAM, Chapter-12, Jan.2001	≤ 10cfu/gm or ≤ 1 cfu/ml

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		Yeast & Mould	USFDA-BAM, Chapter-18, April-2001	10cfu/gm or 1 cfu/ml
		Salmonella	USFDA BAM,Chapter-5, Feb. 2014 ISO:6579, IS 5887 (Part-3)	Present / Absent in 25g
		Coliform	USFDA BAM, Chapter-4, Sep.2003	<3 to >1100 MPN/g ≤10cfu/gm or ≤ 1cfu /ml
8.	Beverages & Soft drinks (Alcoholic and Nonalcoholic)	Total plate count	USFDA BAM, Chapter-3, Jan.2001	≤1cfu/ml
		Escherichia coli	USFDA BAM, Chapter-4, Sep.2003	≤1cfu/ml
		Staphylococcus. aureus	USFDA BAM, Chapter-12, Jan.2001	≤1cfu/ml
		Yeast & Mould	USFDA-BAM, Chapter-18, April-2001	≤1cfu/ml
		Salmonella	USFDA BAM, Chapter-5, Feb. 2014 ISO:6579, IS 5887Part-3	Present / Absent in 25g
		Coliform	USFDA BAM, Chapter-4, Sep.2003	<3 to >1100 MPN/g ≤1cfu/ml

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9.	Salt	Clostridium perfringens	USFDA-BAM, Chapter-16, Jan. 2001	≤ 10 cfu/gm
		Staphylococcus aureus	USFDA BAM, Chapter 12, Jan.2001	≤ 10 cfu/gm
II. WATER				
1.	Water for Processed for food industry (Water & Ice)	Total plate count	IS 5402-2002	≤ 1cfu/ml
		Coliform	IS 1622-1981, RA-2003 APHA 22 nd Ed, Part-9221 B, USFDA-BAM, Chapter-4, Sep. 2002	<2 to 1600/ MPN 100 ml, ≤ 1cfu/ml
		Sulfite reducing clostridia	IS 13428:2005	<2 to 1600/ MPN 50 ml
		Vibrio cholera	IS 5887 (Part5), RA 2005	Present /Absent in100 ml
		Proteolytic bacteria	IS 4251-1967, RA 1992	≤ 1 cfu/ml
		Lipolytic bacteria	IS 4251-1967, RA 1992	≤ 1 cfu/ml
		Pseudomonas aeruginosa	APHA 22 nd Ed .9213E, ISO:13720	Present/Absent/100 ml

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		Faecal Coliform	IS 1622-1981, RA-2003, USFDA-BAM, Chapter-4, Sep. 2002	<2 to 1600 /MPN100 ml
		Faecal Streptococci	IS 1622-1981, RA-2003, APHA 22 nd Edition, 9230 ISO:7899	<2 to 1600/MPN100 ml
2.	Packaged drinking water	Total plate count	IS 5403:2002	≤1cfu/ml
		Escherichia coli	IS 5887 (Part-1), RA 2005	Present/Absent in 250 ml
		Staphylococcus aureus	IS 5887 (Part-2), RA 2005	Present/Absent in 250 ml
		Coliform	IS 1622-1981, RA 2003	<2 to 1600/MPN100ml
		Faecal Streptococci	IS 1622-1981, RA 2003	Present/Absent in 250 ml
		Sulfite Reducing Clostridium	IS 13428:2005	Present / Absent in 50 ml
		Pseudomonas aeruginosa	IS 13428:2005	Present / Absent in 250 ml
		Yeast & Mold	IS 5403:2002	<1cfu/ml
		Salmonella spp.	IS 5887 (Part-3): 2005	Present / Absent in 250 ml
		Vibrio cholera	IS 5887 (Part-5): 2005	Present / Absent in 250 ml
		Vibrio parahaemolyticus	IS 5887 (Part-5): 2005	Present / Absent in 250 ml

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3.	Packaged natural mineral water	Total plate count	IS 5403:2002	< 1cfu/ml
		Escherichia coli	IS 5887 (Part-1), RA 2005	Present/Absent in 250 ml
		Staphylococcus aureus	IS 5887 (Part-2), RA 2005	Present/Absent in 250 ml
		Coliform	IS 1622-1981, RA-2003	<2 to 1600/MPN100ml
		Faecal Streptococci	IS 1622-1981, RA-2003	Present / Absent in 250 ml
		Sulfite Reducing Clostridium	IS 13428:2005	Present / Absent in 250 ml
		Pseudomonas aeruginosa	IS 13428:2005	Present / Absent in 250 ml
		Yeast & Mould	IS 5403:2002	≤ 11 cfu/ml
		Salmonella spp.	IS 5887 (Part-3): 2005	Present / Absent in 250 ml
		Vibrio cholera	IS 5887 (Part-5): 2005	Present / Absent in 250 ml
		Vibrio parahaemolyticus	IS 5887 (Part-5): 2005	Present / Absent in 250 ml

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III.	Bio burdern estimation of Classified and Non classified area Swab Test Only (Table, Utensils, Freezing Tray, Worker's Hand) Swabs-Worker's Hand in APW	Total plate count	ISO : 18593	≤ 1 cfu/ml
		Total coliform	ISO : 18593	<2 to 1600/100ml, ≤1cfu/ml
		Vibrio cholera	ISO : 18593	Present / Absent/ml
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