

Laboratory	Intertek India Pvt. Ltd. (Food Services), Plot No. D-53, IDA Phase-I, Jeedimetla, Hyderabad, Telangana		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Biological Testing	Issue Date	09.03.2015
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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. Bakery and Confectionary Products				
a.	Biscuits, Bread, Food Yeast, Namkeens Cocoa Products Baker's Yeast	Total Bacterial Count	IS 5402: 2012 ISO 4833: 2003	≥ 1CFU/mL ≥ 10 CFU/g
		Coliform Count	IS 5401 (Part 2): 2012 ISO 4831: 2006	< 0.30 MPN/mL or g to ≥ 110 MPN/ mL or g
			IS 5401 (Part 1) 2002 ISO 4832: 1991	≥ 1 CFU/mL ≥ 10 CFU/ g
		Yeast & Mould Count	IS 5403: 1999 (RA 2005)	≥ 1CFU/mL ≥ 10 CFU/g
		E. coli (enumeration)	IS 5887 (Part 1): 1976 (RA 2005)	≥10 CFU/mL ≥100 CFU/g
				< 0.30 MPN/mL or g to ≥ 110 MPN/ mL or g
		E. coli	IS 5887 (Part 1): 1976 (RA 2005)	Present/Absent / 1 mL or 1g
		Staphylococcus aureus (enumeration)	IS 5887 (Part 2): 1976 (RA 2005)	≥ 10 CFU/mL ≥ 100 CFU/ g
		Staphylococcus aureus	IS 5887 (Part 2): 1976 (RA 2005)	Present/Absent / 1 g or 1 mL
		Bacillus cereus (enumeration)	IS 5887 (Part 6): 2012 ISO 7932: 2004	≥ 10 CFU/mL ≥ 100 CFU/g
	Salmonella	IS 5887 (Part 3): 1999 (RA 2005) ISO 6579: 1993	Present/Absent / 25g or 25mL	

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2.	Cereals, Pulse and Cereal Products			
a.	Processed Cereal Based Weaning Food, Protein Isolate Edible Soya, Soya Flour Edible	Total Bacterial Count	IS 5402: 2012 ISO 4833: 2003	≥ 1CFU/mL, ≥ 10CFU/g
		Coliform Count	IS 5401 (Part 2): 2012 ISO 4831: 2006	< 0.30 MPN/mL or g to ≥ 110 MPN/ mL or g
			IS 5401 (Part 1): 2002 ISO 4832: 1991	≥ 1 CFU/mL ≥ 10 CFU/ g
		Yeast & Mould Count	IS 5403: 1999 (RA 2005)	≥ 1CFU/mL ≥ 1CFU/g
		E. coli (enumeration)	IS 5887 (Part 1): 1976 (RA 2005)	≥10 CFU/mL ≥100 CFU/g
				< 0.30 MPN/mL or g to ≥ 110 MPN/ mL or g
		E.coli (enumeration)	IS 5887 (Part 1): 1976 (RA 2005)	Present/Absent / 1 mL or 1 g
		Salmonella	IS 5887 (Part 3): 1999 (RA 2005) ISO 6579: 1993	Present/Absent / 25g or 25 mL
		Staphylococcus aureus (enumeration)	IS 5887 (Part 2): 1976 (RA 2005)	≥ 10 CFU/mL ≥ 100 CFU/ g
	Staphylococcus aureus	IS 5887 (Part 2): 1976 (RA 2005)	Present/Absent / 1 mL or 1g	

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3.	Milk and Dairy Products			
a.	Condensed Milk, Cream, Dairy whitener, Cheese, Ice Creams, Malted Milk Foods, Milk Powders, Raw Milk, Flavoured Milk, Paneer, Casein, Infant Milk Substitutes, Weaning Foods, Dahi, Butter & Ghee	Total Bacterial Count	IS 5402: 2012 ISO 4833: 2003	≥ 1 CFU/mL ≥ 10 CFU/ g or mL
Coliform Count		IS 5401 (Part 2): 2012 ISO 4831: 2006	< 0.30 MPN/mL or g to ≥ 110 MPN/ mL or g	
Yeast & Mould Count		IS 5401 (Part 1): 2002 ISO 4832: 1991	≥ 1 CFU/mL ≥ 10 CFU/ g or mL	
Staphylococcus aureus (enumeration)		IS 5403: 1999 (RA 2005)	≥ 1 CFU/mL ≥ 10 CFU/ g or mL	
Staphylococcus aureus		IS 5887 (Part 2): 1976 (RA 2005)	≥ 10 CFU/g or mL (or) ≥ 100 CFU/ g or mL	
E. coli		IS 5887 (Part 2): 1976 (RA 2005)	Present/Absent / 1 g or 1 mL	
		IS 5887 (Part 1): 1976 (RA 2005)	≥10 CFU /mL or g ≥100 CFU/ g < 0.30 MPN/mL or g to ≥ 110 MPN/ mL or g Present/Absent / 1 mL or 1g	
Salmonella		IS 5887 (Part 3): 1999 (RA 2005) ISO 6579: 1993	Present/Absent / 1g or 1mL (or) Present/Absent 25 g or 25 mL	
Shigella		IS 5887 (Part 7): 1999 (RA 2005)	Present/Absent / 25 mL or 25 g	

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	Condensed Milk, Cream, Dairy whitener, Cheese, Ice Creams, Malted Milk Foods, Milk Powders, Raw Milk, Flavoured Milk, Paneer, Casein, Infant Milk Substitutes, Weaning Foods, Dahi, Butter & Ghee	Listeria monocytogenes	IS 14988 (Part 1): 2001 (RA 2012) ISO 11290-1: 1996	Present/Absent / 25 g or 25mL
		Vibrio cholerae	IS 5887 (Part 5): 1976 (RA 2005)	Present/Absent / 25 mL or 25 g
		Vibrio parahaemolyticus	IS 5887 (Part 5): 1976 (RA 2005)	Present/Absent / 25 mL or 25 g
		Clostridium perfringens count	AOAC 17.7.02 (976.30) , 19 th Edition, 2012	≥1 CFU/mL ≥10 CFU/gm
		Bacillus cereus (enumeration)	IS 5887 (Part 6): 2012 ISO 7932: 2004	≥ 1 CFU/mL ≥ 10 CFU/g ≥ 100 CFU/g
		Faecal streptococci (enumeration)	IS 5887 (Part 2): 1976 (RA 2005)	≥ 10 CFU/mL or g ≥ 100 CFU/g
		Faecal streptococci	IS 5887 (Part 2): 1976 (RA 2005)	0.30 MPN/mL or g 110 MPN/ mL or g
	Faecal streptococci	IS 5887 (Part 2): 1976 (RA 2005)	Present/Absent / 1 mL or g	

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4.	Animal Feed			
a.	Fish Feed	Total Bacterial Count	IS 5402: 2012 ISO 4833: 2003	≥ 1 CFU/mL ≥ 10 CFU/ g
		Coliform Count	IS 5401 (Part 2): 2012 ISO 4831: 2006	< 0.30 MPN/mL or g ≥ 110 MPN/ mL or g
			IS 5401 (Part 1): 2002 ISO 4832: 1991	≥ 1 CFU/mL ≥ 10 CFU/ g
		Yeast & Mould Count	IS 5403: 1999 (RA 2005)	≥ 1 CFU/mL ≥ 10 CFU/ g
		Staphylococcus aureus (enumeration)	IS 5887 (Part 2): 1976 (RA 2005)	≥ 10 CFU/mL ≥ 100 CFU/ mL
		Staphylococcus aureus	IS 5887 (Part 2): 1976 (RA 2005)	Present/Absent / 1 mL or 1g
		E. coli (enumeration)	IS 5887 (Part 1): 1976 (RA 2005)	≥10 CFU/mL ≥100 CFU/g
				< 0.30 MPN/mL or g to ≥ 110 MPN/ mL or g
		E. coli	IS 5887 (Part 1): 1976 (RA 2005)	Present/Absent / 1 mL or 1g
		Salmonella	IS 5887 (Part 3): 1999 (RA 2005) ISO 6579: 1993	Present/Absent / 25g or 25 mL
		Shigella	IS 5887 (Part 7): 1999 (RA 2005)	Present/Absent / 25 g or 25 mL

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	Fish Feed	Listeria monocytogenes	IS 14988 (Part 1): 2001 (RA 2012) ISO 11290-1: 1996	Present/Absent / 1 g or 1 mL (or) Present/Absent 25 g or 25 mL
		Vibrio cholerae	IS 5887 (Part 5): 1976 (RA 2005)	Present/Absent / 25 g or 25 mL
		Vibrio parahaemolyticus	IS 5887 (Part 5): 1976 (RA 2005)	Present/Absent / 25 g or 25 mL
		Faecal streptococci (enumeration)	IS 5887 (Part 2): 1976 (RA 2009)	≥ 10 CFU/mL or g ≥ 100 CFU/g < 0.30 MPN/mL or g to ≥ 110 MPN/ mL or g
		Faecal streptococci	IS 5887 (Part 2): 1976 (RA 2005)	Present/Absent / 1 g or 1 mL
		Clostridium perfringens	AOAC 17.7.02 (976.30) 19 th Edition, 2012	≥ 10 CFU/mL or g ≥ 100 CFU/g
		Bacillus cereus (enumeration)	IS 5887 (Part 6): 2012 ISO 7932: 2004	≥ 10 CFU/mL or g ≥ 100 CFU/g
		Enterobacteriaceae	IS/ISO 7402: 1996 (RA 2007)	≥ 1 CFU/mL ≥ 10 CFU/g < 0.30 MPN/mL or g ≥ 110 MPN/ mL or g

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5.	Fruits and Fruits Products			
a.	Jam, Jellies, Marmalades, Juices, Purees, Pulps, Nectar, Canned Products, Dehydrated Fruit products, Processed Fruits	Total Bacterial Count	IS 5402: 2012 ISO 4833: 2003	≥ 1 CFU/mL ≥ 10 CFU/ g
		Coliform Count	IS 5401 (Part 2): 2012 ISO 4831: 2006	< 0.30 MPN/mL or g to ≥ 110 MPN/ mL or g
			IS 5401 (Part 1): 2002 ISO 4832: 1991	≥ 1 CFU/mL ≥ 10 CFU/ g
		Yeast & Mould Count	IS 5403: 1999 (RA 2005)	≥ 1 CFU/mL ≥ 10 CFU/ g
		Staphylococcus aureus (enumeration)	IS 5887 (Part 2): 1976 (RA 2005)	≥ 10 CFU/mL or g or ≥ 100 CFU/ g
		Staphylococcus aureus	IS 5887 (Part 2): 1976 (RA 2005)	Present/Absent / 1 g or 1 mL
		E. coli (enumeration)	IS 5887 (Part 1): 1976 (RA 2005)	≥10 CFU/mL or g ≥100 CFU/g
				< 0.30 MPN/mL or g ≥ 110 MPN/ mL or g
		E. coli	IS 5887 (Part 1): 1976 (RA 2005)	Present/Absent / 1 mL or 1 g
		Salmonella	IS 5887 (Part 3): 1999 (RA 2005) ISO 6579: 1993	Present/Absent / 25 g or 25 mL
	Shigella	IS 5887 (Part 7): 1999 (RA 2005)	Present/Absent / 25 g or 25 mL	

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	Jam, Jellies, Marmalades, Juices, Purees, Pulps, Nectar, Canned Products, Dehydrated Fruit products, Processed Fruits	Faecal streptococci (enumeration)	IS 5887 (Part 2): 1976 (RA 2005)	< 0.30 MPN/mL or g to ≥ 110 MPN/ mL or g
		Clostridium perfringens	AOAC 17.7.02 (976.30) 19 th Edition, 2012	Present/Absent / 1 mL or 1 g ≥ 10CFU/mL ≥ 100 CFU/g
		Bacillus cereus (enumeration)	IS 5887 (Part 6): 2012 ISO 7932: 2004	≥ 10CFU/mL ≥ 100 CFU/g
		Enterobacteriaceae	IS/ISO 7402-1993, (RA 2001)	≥ 1 CFU/mL ≥ 10 CFU/ g or mL < 0.30 MPN/mL or g to ≥ 110 MPN/ mL or g
6.	Vegetables and Vegetable Products			
a.	Dehydrated vegetable products, Vegetable Concentrates & Ketchups, Frozen Vegetables, Processed Vegetables	Total Bacterial Count	IS 5402: 2012 ISO 4833: 2003	≥ 1 CFU/mL ≥ 10 CFU/ g
		Coliform Count	IS 5401 (Part 2): 2012 ISO 4831: 2006	< 0.30 MPN/mL or g to ≥ 110 MPN/ mL or g
		Yeast & Mould Count	IS 5401 (Part 1): 2002 ISO 4832: 1991	≥ 1 CFU/mL ≥ 10 CFU/ g
		Staphylococcus aureus (enumeration)	IS 5403: 1999 (RA 2005)	≥ 1 CFU/mL ≥ 10 CFU/ g
			IS 5887 (Part 2): 1976 (RA 2005)	≥ 10 CFU/mL ≥ 100 CFU/ g

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	Dehydrated vegetable products, Vegetable Concentrates & Ketchups, Frozen Vegetables, Processed Vegetables	Staphylococcus aureus	IS 5887 (Part 2): 1976 (RA 2005)	Present/Absent / 1 mL or 1 g
		E. coli (enumeration)	IS 5887 (Part 1): 1976 (RA 2005)	≥ 10 CFU/mL ≥ 100 CFU/g
		E. coli (enumeration)	IS 5887 (Part 1): 1976 (RA 2005)	< 0.30 MPN/mL or g to ≥ 110 MPN/ mL or g
		Salmonella	IS 5887 (Part 3): 1999 (RA 2005) ISO 6579: 1993	Present/Absent / 25 g or 25 mL
		Shigella	IS 5887 (Part 7): 1999 (RA 2005)	Present/Absent / 25 g or 25 mL
		Listeria monocytogenes	IS 14988 (Part 1): 2001 (RA 2012) ISO 11290-1: 1996	Present/Absent / 1 g or 25g or 1 mL or 25 mL
		Vibrio cholerae	IS 5887 (Part 5): 1976 (RA 2005)	Present/Absent / 25 g or 25 mL
		Vibrio parahaemolyticus	IS 5887 (Part 5): 1976 (RA 2005)	Present/Absent / 25 g or 25 mL
		Faecal streptococci (enumeration)	IS 5887 (Part 2): 1976 (RA 2005)	≥ 10CFU/mL or g ≥ 100 CFU/g
		Faecal streptococci	IS 5887 (Part 2): 1976 (RA 2005)	< 0.30 MPN/mL or g to ≥ 110 MPN/ mL or g Present/Absent / 1 mL or 1 g

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	Dehydrated vegetable products, Vegetable Concentrates & Ketchups, Frozen Vegetables, Processed Vegetables	Clostridium perfringens	AOAC 17.7.02 (976.30) 19 th Edition, 2012	≥ 10CFU/mL ≥ 100 CFU/g
		Bacillus cereus enumeration	IS 5887 (Part 6) 2012 ISO 7932: 2004	≥ 10CFU/mL ≥ 100 CFU/g
		Enterobacteriaceae	IS/ISO 7402-1996 (RA 2007)	≥ 1 CFU/mL ≥ 10 CFU/ g < 0.30 MPN/mL or g to ≥ 110 MPN/ mL or g
7.	Herbs, Spices and Condiments	Total Bacterial Count	IS 5402: 2012 ISO 4833: 2003	≥ 1 CFU/mL ≥ 10 CFU/ g
		Coliform Count	IS 5401 (Part 2): 2012 ISO 4831: 2006	< 0.30 MPN/mL or g to ≥ 110 MPN/ mL or g
			IS 5401 (Part 1): 2002 ISO 4832: 1991	≥ 1 CFU/mL ≥ 10 CFU/ g or mL
		Yeast & Mould Count	IS 5403: 1999 (RA 2005)	≥ 1 CFU/mL ≥ 10 CFU/ g
		Staphylococcus aureus (enumeration)	IS 5887 (Part 2): 1976 (RA 2005)	≥ 10 CFU/mL ≥ 100 CFU/ g
		Staphylococcus aureus	IS 5887 (Part 2): 1976 (RA 2005)	Present/Absent / 1 g or 1 mL
		E. coli (enumeration)	IS 5887 (Part 1) 1976, (RA 2005)	≥10 CFU/mL ≥100 CFU/g
		IS 5887 (Part 1): 1976 (RA 2005)	< 0.30 MPN/mL or g to ≥ 110 MPN/ mL or g	

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	Herbs, Spices and Condiments	E. coli		Present/Absent / 1 mL or 1 g
		Salmonella	IS 5887 (Part 3): 1999 (RA 2005) ISO 6579: 1993	Present/Absent / 25 g or 25 mL
		Bacillus cereus (enumeration)	IS 5887 (Part 6): 2012 ISO 7932: 2004	≥10 CFU/mL ≥100 CFU/g
		Total Bacterial Count	Ayurvedic Pharmacopoeia of India, Section 2.4, Part-II, Volume – II, First Edition, 2008	≥ 1 CFU/mL or g ≥ 10 CFU/ g or mL
		Total fungal Count	Ayurvedic Pharmacopoeia of India, Section 2.4, Part-II, Volume – II, First Edition, 2008	≥ 1 CFU/mL ≥ 10 CFU/ g
		Staphylococcus aureus	Ayurvedic Pharmacopoeia of India, Section 2.4, Part-II, Volume – II, First Edition, 2008	Present/Absent / 1 g or 1 mL
		Escherichia coli	Ayurvedic Pharmacopoeia of India, Section 2.4, Part-II, Volume – II, First Edition, 2008	Present/Absent / 1 g or 25 g (or) 1 mL or 25 mL
		Salmonella	Ayurvedic Pharmacopoeia of India, Section 2.4, Part-II, Volume – II, First Edition, 2008	Present/Absent / 1 g or 25 g (or) 1 mL or 25 mL
		Pseudomonas aeruginosa	Ayurvedic Pharmacopoeia of India, Section 2.4, Part-II, Volume – II, First Edition, 2008	Present/Absent / 1 g or 1 mL

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8.	Meat and Meat Products			
a.	Meat, Chicken	Total Bacterial Count	IS 5402: 2012 ISO 4833: 2003	≥ 1 CFU/mL ≥ 10 CFU/ g
		Coliform Count	IS 5401 (Part 2): 2012 ISO 4831: 2006	< 0.30 MPN/mL or g to ≥ 110 MPN/ mL or g
			IS 5401 (Part 1): 2002 ISO 4832: 1991	≥ 1 CFU/mL ≥ 10 CFU/ g
		Yeast & Mould Count	IS 5403:1999 (RA 2005)	≥ 1 CFU/mL ≥ 10 CFU/ g
		Staphylococcus aureus (enumeration)	IS 5887 (Part 2): 1976 (RA 2005)	≥ 10 CFU/mL or ≥ 100 CFU/g
		Staphylococcus aureus	IS 5887 (Part 2): 1976 (RA 2005)	Present/Absent / 1 g or 1 mL
		Faecal streptococci	IS 5887 (Part 2): 1976 (RA 2005)	Present/Absent / 1 g or 1 mL
		Faecal streptococci (enumeration)	IS 5887 (Part 2): 1976 (RA 2005)	≥ 10CFU/mL ≥ 100CFU/g
				< 0.30 MPN/mL or g to ≥ 110 MPN/ mL or g
		E. coli (enumeration)	IS 5887 (Part 1): 1976 (RA 2005)	≥10 CFU/mL or g ≥100 CFU/g
				< 0.30 MPN/mL or g ≥ 110 MPN/ mL or g

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	Meat, Chicken	E. coli	IS 5887 (Part 1): 1976 (RA 2005)	Present/Absent / 1 mL or 1 g
		Salmonella	IS 5887 (Part 3): 1999 (RA 2005) ISO 6579: 1993	Present/Absent / 25 mL or 25 g
		Shigella	IS 5887 (Part 7): 1999 (RA 2005)	Present/Absent / 25 mL or 25 g
		Listeria monocytogenes	IS 14988 (Part 1): 2001 (RA 2012) ISO 11290-1: 1996	Present/Absent / 25 mL or 25g
		Vibrio cholerae	IS 5887 (Part 5): 1976 (RA 2005)	Present/Absent / 25 mL or 25g
		Vibrio parahaemolyticus	IS 5887 (Par 5): 1976 (RA 2005)	Present/Absent / 25 mL or 25 g
9.	Fish and Sea Foods			
a.	Prawns, Shrimps, Fish	Aerobic Plate Count	BAM chapter 3, 2001	≥ 1 CFU/mL ≥ 10 CFU/ g
		E. coli enumeration	BAM chapter 4, 2002	< 3.0 MPN/ g ≥ 1100 MPN/g
		Vibrio cholerae	BAM chapter 9, 2004	Present/Absent / 25 mL or 25g
		Vibrio parahaemolyticus	BAM chapter 9, 2004	Present/Absent / 25 mL or 25 g
		Listeria monocytogenes	IS 14988 (Part 1): 2001 (RA 2012) ISO 11290-1: 1996	Present/Absent / 25 mL or 25 g

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	Prawns, Shrimps, Fish	Coliform Count	BAM chapter 4, 2002	< 3.0 MPN/ g ≥ 1100 MPN/g
		Yeast & Mould Count	BAM chapter 18, 2001	≥ 1 CFU/mL ≥ 10 CFU/ g
		Vibrio vulnificus	BAM chapter 9, 2004	Present/Absent / 25 mL or 25 g
		Bacillus cereus	IS 5887 (Part 6): 2012 ISO 7932: 2004	≥10 CFU/mL or ≥ 100 CFU/g
		Staphylococcus aureus (enumeration)	IS 5887 (Part 2): 1976 (RA 2005)	≥ 10 CFU/mL or ≥ 100 CFU/ g
		Staphylococcus aureus	IS 5887 (Part 2): 1976 (RA 2005)	Present/Absent / 1 g or 1 mL
10.	Ready to Eat Foods			
a.	Snacks and Instant Mixes	Total Bacterial Count	IS 5402: 2012 ISO 4833: 2003	≥ 1 CFU/mL ≥ 10 CFU/ g
		Coliform Count	IS 5401 (Part 2): 2012 ISO 4831: 2006	< 0.30 MPN/mL or g to ≥ 110 MPN/ mL or g
			IS 5401 (Part 1): 2002 ISO 4832: 1991	≥ 1 CFU/mL ≥ 10 CFU/ g
		Yeast & Mould Count	IS 5403: 1999 (RA 2005)	≥ 1 CFU/mL ≥ 10 CFU/ g
		Staphylococcus aureus enumeration	IS 5887 (Part 2): 1976 (RA 2005)	≥ 10 CFU/mL ≥ 100 CFU/ g

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	Snacks and Instant Mixes	Staphylococcus aureus	IS 5887 (Part 2): 1976 (RA 2005)	Present/Absent / 1 g or 1 mL
		E. coli (enumeration)	IS 5887 (PART1) 1976, (RA 2005)	≥ 10 CFU/mL or g ≥ 100 CFU/g < 0.30 MPN/mL or g to ≥ 110 MPN/ mL or g
		E. coli	IS 5887 (Part 1): 1976 (RA 2005)	Present/Absent / 1 mL or 1g
		Salmonella	IS 5887 (Part 3): 1999 (RA 2005) ISO 6579: 1993	Present/Absent / 25 g or 25 mL
		Shigella	IS 5887 (Part 7): 1999 (RA 2005)	Present/Absent/ 25 g or 25 mL
		Listeria monocytogenes	IS 14988 (Part 1): 2001 (RA 2012) ISO 11290-1: 1996	Present/Absent / 1 g or 25 g or 1 mL or 25 mL
		Vibrio cholerae	IS 5887 (Part 5): 1976 (RA 2005)	Present/Absent / 25 g or 25 mL
		Vibrio parahaemolyticus	IS 5887 (Part 5): 1976 (RA 2005)	Present/Absent / 25g or 25mL
		Faecal streptococci (enumeration)	IS 5887 (Part 2): 1976 (RA 2005)	≥ 10 CFU/mL or g ≥ 100 CFU/g < 0.30 MPN/mL or g to ≥ 110 MPN/ mL or g

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	Snacks and Instant Mixes	Faecal streptococci	IS 5887 (Part 2): 1976 (RA 2005)	Present/Absent / 1 g or 1 mL
		Clostridium perfringens	AOAC 17.7.02 (976.30) 19 th Edition, 2012	≥ 10 CFU/mL ≥ 100 CFU/mL or g
		Bacillus cereus (enumeration)	IS 5887 (Part 6): 2012 ISO 7932: 2004	≥ 10 CFU/mL or g ≥ 100 CFU/mL or g
11.	Tea			
a.	Tea Powder	Total Plate Count	IS 5402: 2012 ISO 4833: 2003	≥ 1 CFU/mL ≥ 10 CFU/ g
		Coliform Count	IS 5401 (Part 2): 2012 ISO 4831: 2006	< 0.30 MPN/mL or g to ≥ 110 MPN/ mL or g
			IS 5401 (Part 1): 2002 ISO 4832: 1991	≥ 1 CFU/mL ≥ 10 CFU/ g
		Yeast & Mould Count	IS 5403: 1999 (RA 2005)	≥ 1 CFU/mL ≥ 10 CFU/ g
		Salmonella	IS 5887 (Part 3): 1999 (RA 2005) ISO 6579: 1993	Present/Absent / 25 g or 25 mL
		E. coli (enumeration)	IS: 5887 (Part 1): 1976 (RA 2005)	≥10 CFU/mL ≥100 CFU/g
				< 0.30 MPN/mL or g to ≥ 110 MPN/ mL or g
		E. coli	IS 5887 (Part 1): 1976 (RA 2005)	Present/Absent / 1 mL or 1g

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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
12.	Coffee and Cocoa Products			
a.	Instant Coffee	Total Plate Count	IS 5402: 2012 ISO 4833: 2003	≥ 1 CFU/mL ≥ 10 CFU/ g
		Coliform Count	IS 5401 (Part 2): 2012 ISO 4831: 2006	< 0.30 MPN/mL or g to ≥ 110 MPN/ mL or g Present/Absent / 1 mL or 1 g
			IS 5401 (Part 1): 2002 ISO 4832: 1991	≥ 1 CFU/mL ≥ 10 CFU/ g
		Yeast & Mould Count	IS 5403: 1999 (RA 2005)	≥ 1 CFU/mL ≥ 10 CFU/ g
		Salmonella	IS 5887 (Part 3): 1999 (RA 2005) ISO 6579: 1993	Present/Absent / 25 g /or 25 mL
		E. coli (enumeration)	IS 5887 (Part 1): 1976 (RA 2005)	≥10 CFU/mL ≥100 CFU/g < 0.30 MPN/mL or g ≥ 110 MPN/ mL or g
		E. coli	IS 5887 (Part 1): 1976 (RA 2005)	Present/Absent / 1 mL or 1 g
13.	Beverages (Non Alcoholic)			
a.	Soft Drinks	Total Bacterial Count	IS 5402: 2012 ISO 4833: 2003	≥ 1 CFU/mL
		Yeast and moulds	IS 5403: 1999 (RA 2005)	≥ 1 CFU/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
	Soft Drinks	Coliforms	IS 15185: 2002	≥ 1 CFU/100 mL
II. WATER				
1.	Drinking Water	Coliforms	IS 1622: 1981 (RA 1996) IS 10500: 2012	≥ 2 MPN/100 mL to ≤ 542 MPN/100 mL
		E. coli	IS 1622: 1981 (RA 1996) IS 10500: 2012	≥ 2 MPN/100 mL to ≤ 542 MPN/100 mL
		Coliform Bacteria and Escherichia coli	ISO 9308-1: 2000 (EU method - 98/83/EC, Annex III of OJEC)	≥ 1CFU/100 mL
		Total culturable bacterial count at 37°C	pr EN ISO 6222: 1999 (EU method - 98/83/EC, Annex III of OJEC)	≥ 1CFU/mL
		Total culturable bacterial count at 22°C	pr EN ISO 6222: 1999 (EU method - 98/83/EC, Annex III of OJEC)	≥ 1CFU/mL
		Enterococci	ISO 7899-2: 2000 (EU method - 98/83/EC, Annex III of OJEC)	≥ 1CFU/100mL
		Pseudomonas aeruginosa	ISO 16266: 2006 (EU method - 98/83/EC, Annex III of OJEC)	≥ 1CFU/100 mL
		Clostridium perfringens	EU method - 98/83/EC, Annex III of OJEC (EU method -98/83/EC, Annex III of OJEC)	≥ 1CFU/100MI
		Total Coliforms	ISO 9308-2: 1990 (WHO Guidelines, 2004)	≥ 2 MPN/100 mL to ≥1800 MPN/100 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
	Drinking Water	Thermotolerant coliforms / Faecal coliforms	ISO 9308-2, 1990 (WHO Guidelines, 2004)	≥ 2 MPN/100 mL to ≥1800 MPN/100 mL
		Total Bacterial count	SMWW 22 nd edition , 2012 9215 B (APHA)	> 1 CFU/mL
			SMWW 22 nd edition, 2012 9215 D (APHA)	≥ 1 CFU/ 100mL
		Coliforms	SMWW 22 nd edition, 2012 9222 B (APHA)	≥ 1 CFU/ 100mL
		E.coli / Thermo tolerant coliforms / Faecal coliforms	SMWW 22 nd edition , 2012 9222 D (APHA)	≥ 1 CFU/ 100mL
		Enterococci / Faecal Streptococci	SMWW 22 nd edition, 2012 9230 B (APHA)	> 1.8 MPN / 100 mL to ≥ 1600 MPN/100mL
2.	Packaged Drinking Water (Other than Packaged Natural mineral Water) Packaged Natural Mineral Water	Aerobic Microbial Count at 37 ^o C and 20 to 22 ^o C	IS 5402: 2012 ISO 4833: 2003	≥ 1CFU/mL
		Aerobic Microbial Count at 20 to 22 ^o C	IS 5402: 2012 ISO 4833: 2003	≥ 1CFU/mL
		Yeast & Moulds	IS 5403: 1999 (RA 2005)	Present/Absent /250ml
		Pseudomonas aeruginosa.	IS 13428: 2005 (Annex – D)	Present/Absent /250ml
		Faecal streptococci	IS 15186: 2002 ISO 7899-2: 2000	Present/Absent /250mL
		Sulphite reducing anaerobes (Clostridia)	IS 13428: 2005 (Annex C)	Present/Absent / 50mL

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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
	Packaged Drinking Water (Other than Packaged Natural mineral Water) Packaged Natural Mineral Water	Salmonella	IS 15187: 2002 ISO 6340: 1995	Present/Absent /250mL
		Shigella	IS 5887 (Part 7): 1999 (RA 2005)	Present/Absent / 250mL
		Vibrio cholerae	IS 5887 (Part 5): 1976 (RA 2005)	Present/Absent /250mL
		Vibrio parahaemolyticus	IS 5887 (Part 5): 1976 (RA 2005)	Present/Absent /250mL
		Staphylococcus aureus	IS 5887 (Part 2): 1976 (RA 2005)	Present/Absent /250mL
		Coliforms Bacteria	IS 15185: 2002 ISO 9308-1 :2000	Present/Absent /250mL
		Escherichia coli	IS 15185: 2002 ISO 9308-1: 2000	Present/Absent /250mL
3.	Water For Processed Food Industry	Coliform Bacteria	IS 1622: 1981 (RA 1996) IS 4251: 1967 (RA 2009)	≥ 2 MPN/100 mL to ≤ 542 MPN/100 mL
		Standard Plate Count	IS 1622: 1981 (RA 1996) IS 4251: 1967 (RA 2009)	≥ 1 CFU/mL
		Proteolytic & Lipolytic Organisms	IS 4251: 1967 (RA 2009) IS 4251: 1967 (RA 2009)	≥ 1 CFU/mL
		Thermophilic bacteria	IS 4251: 1967 (RA 2009) IS 4251: 1967 (RA 2009)	≥ 1 CFU/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
4.	Water & Waste Water	Total Bacterial count	SMWW 22 nd edition , 2012 9215 B (APHA)	≥ 1 CFU/mL
			SMWW 22 nd edition, 2012 9215 D (APHA)	≥ 1 CFU/ 100 mL
		Coliforms	SMWW 22 nd edition, 2012 9222 B (APHA)	≥ 1 CFU/ 100 mL
		E.coli / Thermo tolerant coliforms / Faecal coliforms	SMWW 22 nd edition , 2012 9222 D (APHA)	≥ 1 CFU/ 100 mL
		Enterococci / Faecal Streptococci	SMWW 22 nd edition, 2012 9230 B (APHA)	≥1.8 MPN /100mL to > 1600 MPN /100mL

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