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Discipline	Biological Testing	Issue Date	04.10.2014

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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
I.	WATER			
1.	Packaged Drinking	Escherichia coli (Detection)	IS 5887 (Part -1): 1976	Present or Absent / 250 ml
	Water, Packaged Natural Mineral	Coliform (Detection)	IS 5401:2012	Present or Absent / 250 ml
	Water	Salmonella (Detection)	IS 15187:2002	Present or Absent / 250 ml
		IS 5887 (Part-7):1999	Present or Absent / 250 ml	
		Vibrio cholera (Detection)	IS 5887 (Part-5):1976	Present or Absent / 250 ml
		Vibrio parahaemolyticus (Detection)	IS 5887 (Part-5) :1976	Present or Absent / 250 ml
		Sulphite reducing anaerobes (Detection)	IS 13428:1998 (Annex. C)	Present or Absent / 50 ml
		Faecal streptococci (Detection)	IS 5887 (Part-2): 1976	Present or Absent / 250 ml
		Staphylococcus aureus (Detection)	IS 5887 (Part-2): 1976	Present or Absent / 250 ml
		Pseudomonas aeruginosa (Detection)	IS 13428:1998 (Annex. D)	Present or Absent / 250 ml
		Aerobic microbial Count / ml a) 370 °C for 24 hrs b) 220 °C for 72 hrs	IS 5402:2012	Min. 1 Cfu
		Yeast & mould (Detection)	IS 5403:1999	Present or Absent / 250 ml

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2.	2. Drinking Water/ Potable water	Coliform	IS 1622:1981	≥ 2 MPN/100 ml
		Escherichia coli (Detection)	IS 1622:1981	Absent / 100 ml
3.	Water for	Standard plate count	IS 5402 :2012	≥ 1 cfu / ml
	Swimming Pools & Spas	Total Coliforms	IS 1622:1981	$\geq 2 \text{ MPN}/100 \text{ ml}$
II.	FOOD & AGRICUI	TURAL PRODUCTS		
1.	Milk and Dairy Products	Total plate count	IS 5402-2012	$\geq 1 \text{ cfu} / \text{ml}$ $\geq 10 \text{ cfu} / \text{g}$
		Shigella (Detection)	IS 5887 (Part-7): 1999	Present or Absent/25 g
		Yeast & mould count	IS 5403:1999	$\geq 1 \text{ cfu} / \text{ml}$ $\geq 10 \text{ cfu} / \text{g}$
		Escherichia coli (Detection)	IS 5887 (Part-1):1976	Present or Absent/g
		Escherichia coli (Enumeration)	IS 5887 (Part-1):1976	$\geq 100 \text{ cfu} / \text{g}$ $\geq 10 \text{ cfu} / \text{ml}$
		Coliform count	IS 5401 (Part-1): 2012	$\geq 1 \text{ cfu / ml}$ $\geq 10 \text{ cfu / g}$
		Salmonella (Detection)	IS 5887 (Part-3): 1999	Present or Absent / 25 g
		Staphylococcus aureus (Detection)	IS 5887 (Part-2):1976	Present or Absent / g

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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
	Milk and Dairy Products	Staphylococcus aureus (Enumeration)	IS 5887 (Part-2): 1976	≥100 cfu / g
		Staphylococcus aureus (Detection)	IS 5887 (Part-2) :1976	Present or Absent/ 0.1 g
		Bacillus cereus (Enumeration)	IS 5887 (Part-6):2012	≥100 cfu / g
		Fecal Streptococci (Enumeration)	IS 5887 (Part-2):1976	≥100 cfu / g
		Clostridium spp. (Detection)	IS 5887 (Part-4):1999	Present or Absent / 25 g
2.	Cereals, Pulses and Cereal Products	Yeast & mould count	IS 5403:1999	≥10 cfu / g
	Cereal Products	Total plate count	IS 5402-2012	≥10 cfu / g
		Escherichia coli (Detection)	IS 5887(Part-1):1976	Present or Absent/ g
		Escherichia coli (Enumeration)	IS 5887(Part-1):1976	≥100 cfu / g
		Coliform count	IS 5401 (Part-1): 2012	≥10 cfu / g
		Salmonella (Detection)	IS 5887 (Part-3): 1999	Present or Absent / 25 g
		Shigella (Detection)	IS 5887 (Part-7) :1999	Present or Absent/25 g

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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
	Cereals, Pulses and Cereal Products	Staphylococcus aureus (Detection)	IS 5887 (Part-2): 1976	Present or Absent / g
		Staphylococcus aureus (Enumeration)	IS 5887 (Part-2) :1976	≥100 cfu / g
		Bacillus cereus (Enumeration)	IS 5887 (Part-6):2012	≥100 cfu / g
3.	Herbs , Spices & Condiments	Total plate count	IS 5402-2012	≥10 cfu / g
	Condiments	Yeast & mould count	IS 5403:1999	$\geq$ 100 cfu / g $\geq$ 10 cfu / g $\geq$ 10 cfu / g Present or Absent / g $\geq$ 100 cfu / g $\geq$ 10 cfu / g
		Escherichia coli (Detection)	IS 5887 (Part-1):1976	
		Escherichia coli (Enumeration)	IS 5887 (Part-1):1976	≥100 cfu / g
		Coliform count	IS 5401(Part-1): 2012	≥10 cfu / g
		Salmonella (Detection)	IS 5887 (Part-3) :1999	Present or Absent / 25 g
		Shigella (Detection)	IS 5887 (Part-7) :1999	Present or Absent / 25 g
		Staphylococcus aureus (Detection)	IS 5887 (Part-2): 1976	Present or Absent/g

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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
	Herbs , Spices & Condiments	Faecal streptococci (Detection)	IS 5887 (Part-2) :1976	Present or Absent/g
	00101110110	Clostridium sp. (Detection)	IS 5887 (Part -4): 1999	Present or Absent/ 25 g
4.	Frozen Foods	Listeria sp. (Detection)	IS 14988 (Part-I): 2001	Present or Absent / 25 g
		Clostridium spp. (Detection)	IS 5887 (Part -4): 1999	Present or Absent/ 25 g
		Vibrio cholerae. (Detection)	IS 5887 (Part-5): 1976	Present or Absent / 25 g
		Vibrio parahaemolyticus (Detection)	IS 5887 (Part -5): 1976	Present or Absent / 25 g
		Coliform count	IS 5401(Part-1): 2012	≥10 cfu / g
5.	Snacks & Instant Mixes	Total Plate Count	IS 5402 : 2012	≥10 cfu / g
	Wilkes	Escherichia coli (Detection)	IS 5887 (Part –I): 1976	Present or Absent / g
		Total Coliforms Count	IS 5401 : 2012	$\geq 10 \text{ cfu} / g$
		Salmonella sp. (Detection)	IS 5887 (Part -3): 1999	Present or Absent / 25 g
		Staphylococcus aureus (Detection)	IS 5887 (Part –2):1976	Present or Absent / g

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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
	Snacks & Instant Mixes	Clostridium spp. (Detection)	IS 5887 (Part -4): 1999	Present or Absent / 25 g
		Listeria sp. (Detection)	IS 14988 (Part-I): 2001	Present or Absent / 25 g
		Yeast & Mould count	IS 5403 : 1999	$\geq 10 \ cfu \ / \ g$
6.	Bakery & Confectionery	Total Plate Count	IS 5402 : 2012	$\geq 10 \text{ cfu} / g$
	Products	Yeast and Mould count	IS 5403 : 1999	$\geq 10$ cfu / g
		Total Coliforms Count	IS 5401 : 2012	$\geq 10$ cfu / g
		Salmonella sp. (Detection)	IS 5887 (Part -3): 1999	Present or Absent / 25 g
		Shigella (Detection)	IS 5887 (Part -7): 1999	Present or Absent / 25 g
		Staphylococcus aureus (Detection)	IS 5887 (Part -2) :1997	Present or Absent/ g
		Escherichia coli (Detection)	IS 5887 (Part -I): 1976	Present or Absent/ g
7.	Tea	Total Plate Count	IS 5402 : 2012	$\geq 10 \text{ cfu} / \text{g}$
		Yeast and Mould count	IS 5403 : 1999	$\geq 10 \text{ cfu} / \text{g}$
		Escherichia coli (Detection)	IS 5887 (Part -I): 1976	Present or Absent / g

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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
	Tea	Total Coliforms Count	IS 5401 :2012	≥ 10 cfu / g
		Salmonella sp. (Detection)	IS 5887 (Part -3):1999	Present or Absent / 25 g
		Staphylococcus aureus (Detection)	IS 5887 (Part –2):1976	Present or Absent / g
8.	Fruits & Fruit	Total Plate Count	IS 5402 : 2012	$\geq$ 10 cfu / g
	Products	Escherichia coli (Detection)	IS 5887 (Part -I): 1976	Present or Absent / g
		Salmonella (Detection)	IS 5887 (Part-3):1999	Present/Absent / 25 g
		Shigella (Detection)	IS 5887 (Part -7): 1999	Present/Absent / 25 g
		Clostridium spp. (Detection)	IS 5887 (Part-4):1976	Present/Absent / 25g
		Yeast and Mould count	IS 5403 : 1999	$\geq 10 \text{ cfu} / \text{g}$
		Total Coliforms Count	IS 5401 :2012	$\geq$ 10 cfu / g
		Staphylococcus aureus (Detection)	IS 5887 (Part -2):1976	Present or Absent / g

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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
9.	Vegetables & Vegetable Products	Total Plate Count	IS 5402 : 2012	$\geq 10 \text{ cfu} / \text{g}$
	, ogetakie i roudets	Escherichia coli (Detection)	IS 5887 (Part -I): 1976	Present or Absent / g
		Salmonella (Detection)	IS 5887 (Part-3):1999	Present/Absent / 25 g
		Shigella (Detection)	IS 5887 (Part -7): 1999	Present/Absent / 25 g
		Clostridium spp. (Detection)	IS 5887 (Part-4):1976	Present/Absent / 25g
		Yeast and Mould count	IS 5403 : 1999	$\geq 10 \ cfu \ / \ g$
		Total Coliforms Count	IS 5401 :2012	$\geq 10 \text{ cfu} / \text{g}$
		Staphylococcus aureus (Detection)	IS 5887 (Part –2):1976	Present or Absent / g
10.	Starch and Starch Products	Total Plate Count	IS 5402 : 2012	$\geq 10 \text{ cfu} / g$
	Products	Escherichia coli (Detection)	IS 5887 (Part –I) : 1976	Present or Absent / g
		Escherichia coli (Enumeration )	IS 5887 (Part –I) : 1976	$\geq 100~\text{cfu} \ / \ g$
		Salmonella (Detection)	IS 5887 (Part-3):1999	Present/Absent / 25 g

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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
	Starch and Starch Products	Shigella (Detection)	IS 5887 (Part -7): 1999	Present/Absent / 25 g
		Clostridium spp. (Detection)	IS 5887 (Part-4):1976	Present/Absent / 25 g
		Staphylococcus aureus (Detection)	IS 5887 (Part-2):1976	Present/Absent / g
		Bacillus cereus (Enumeration)	IS 5887 (Part-6): 2012	$\geq 100~\text{cfu} \: / \: \text{g}$
11.	Nuts and Nut Products	Total Plate Count	IS 5402 : 2012	$\geq 10 \text{ cfu} / \text{g}$
		Escherichia coli (Detection)	IS 5887 (Part-1):1976	Present or Absent / g
		Staphylococcus aureus (Detection)	IS 5887 (Part-2):1976	Present or Absent / g
		Salmonella (Detection)	IS 5887 (Part-3):1999	Present/Absent / 25 g
		Shigella (Detection)	IS 5887 (Part -7): 1999	Present/Absent / 25 g
		Vibrio cholera (Detection)	IS 5887 (Part -5): 1999	Present/Absent / 25 g
		Clostridium spp. (Detection)	IS 5887 (Part-4):1976	Present/Absent / 25 g

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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.	Meat and Meat Products	Total Plate Count	IS 5402 : 2012	$\geq 10 \text{ cfu} / g$
		Salmonella (Detection)	IS 5887 (Part-3):1999	Present/Absent / 25 g
		Shigella (Detection)	IS 5887 (Part -7): 1999	Present/Absent / 25 g
		Staphylococcus aureus (Enumeration )	IS 5887 (Part-2):1976	≥100 cfu / g
		Clostridium spp (Enumeration)	IS 5887 (Part-4):1976	≥100 cfu / g
		Escherichia coli (Enumeration )	IS 5887 (Part -I): 1976	≥100 cfu / g
		Yeast and Mould	IS 5403:1999	≥10 cfu / g
		Listeria moncytogenes (Detection)	IS 14988 (Part-I): 2001	Present or Absent / 25 g
13.	Fish and Sea Products	Total Plate Count	IS 5402 : 2012	≥10 cfu / g
	Trouders	Escherichia coli (Enumeration)	IS 5887 (Part –I) : 1976	≥100 cfu / g
		Staphylococcus aureus (Enumeration)	IS 5887 (Part-2):1976	≥100 cfu / g

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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
	Fish and Sea Products	Salmonella (Detection)	IS 5887 (Part-3):1999	Present/Absent / 25 g
		Shigella (Detection)	IS 5887 (Part –7) : 1999	Present/Absent / 25 g
		Vibrio cholera (Detection)	IS 5887 (Part –5) : 1999	Present/Absent / 25 g
		Vibrio parahaemolytics (Detection)	IS 5887 (Part –5) : 1999	Present/Absent / 25 g
		Clostridium spp. (Detection)	IS 5887 (Part-4):1976	Present/Absent / 25 g
14.	Non Alcoholic Beverages	Total Plate Count	IS 5402 : 2012	$\geq$ 1 cfu / ml
	<b>g</b>	Yeast and Mould	IS 5403:1999	$\geq 1$ cfu / ml
		Coliform	IS 5401(Part-1): 2012	$\geq 1$ cfu / ml
III.	BIOLOGICAL TES	TS ON OTHER MISCELLANEO	US TEST ITEMS	
1.	Textiles & Fabrics (Parallel Streak	Klebsiella pneumonia (Only Growth)	AATCC 147: 2011	Growth / No Growth
	Method)	Staphylococcus aureus (Only Growth)	AATCC 147:2011	Growth / No Growth

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IV.	COSMETICS & ESS	SENTIAL OILS					
1.	Cosmetics	Total Plate Count	IS 14648:2011		≥ 10 cfu /	≥ 10 cfu / g	
		Yeast and Mould	IS 14648:2011	≥ 10 c		u/g	
		Escherichia coli (Detection)	IS 14648:2011		Present/Absent / g		
		Staphylococcus aureus	IS 14648:2011		Present/A	bsent / g	

## 

IS 14648:2011

IS 14648:2011

(Detection)

(Detection)

Candida albicans (Detection)

Pseudomonas aeruginosa

NOTE: The Laboratory has demonstrated competence for the stated scope for WATER. This however <u>does not fully cover</u> the specification requirements of BIS for the Packaged Drinking Water as per IS:14543 and the Packaged Natural Mineral Water IS:13428.

Laboratory

Present/Absent / g

Present/Absent / g