

Laboratory Bureau Veritas India Private Limited, Food Laboratory, Plot No. B3/B4, TTC Industrial Area, Digha MIDC, Digha, Thane, Navi Mumbai, Maharashtra

Accreditation Standard ISO/IEC 17025: 2017

Certificate Number TC-7765

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Sl.	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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BIOLOGICAL TESTING

I.	FOOD AND AGRICULTURAL PRODUCTS			
1.	Tea (Tea, Instant Tea, Green Tea)	Aerobic Microbial Count/ Total Plate Count/ Total Viable Count/ Total Bacterial Count	IS 5402: 2012 (RA 2018) ISO 4833: 2003 ISO 4833-1: 2013	≥ 10 cfu/g ≥ 10 cfu/g
		Yeast and Mould Count	IS 5403: 1999 (RA 2018) ISO 21527-2: 2008	≥ 10 cfu/g ≥ 10 cfu/g
		Enumeration of Coliforms	IS 5401 (Part 1): 2012 (RA 2018) ISO 4832: 2006	≥ 10 cfu/g
			IS 5401 (Part 2): 2012 (RA 2018) ISO 4831: 2006	< 0.3 MPN/g to 110 MPN/g
		Enterobacteriaceae	IS/ISO 7402: 1993 (RA 2018)	≥ 10 cfu/g
				< 0.3 MPN/g to 110 MPN/g
		E. coli	IS 5887 (Part 1): 1976 (RA 2018)	< 0.3 MPN/g to 110 MPN/g
				Qualitative (Presence or Absence per g)
			ISO 7251: 2005	Qualitative (Presence or Absence per g or 25g)
				0.3 MPN to ≥110 MPN 0.18 MPN to 160 MPN
		Staphylococcus aureus	IS 5887 (Part 2): 1976 (RA 2018)	Qualitative (Presence or Absence per 25g)

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		Faecal streptococci	IS 5887 (Part 2): 1976 (RA 2018)	Qualitative (Presence or Absence per 25g)
				< 0.3 MPN/g to 110 MPN/g
		Salmonella spp.	IS 5887 (Part 3): 1999 (RA 2018)	Qualitative (Presence or Absence per 25g to 375g)
			ISO 6579-1: 2017	Qualitative (Presence or Absence per 25g to 375g)
		Clostridium perfringens	IS 5887 (Part 4): 1999 (RA 2018)	Qualitative (Presence or Absence per 25g)
		Vibrio Cholerae and Vibrio parahaemolyticus	IS 5887 (Part 5): 1976 (RA 2018)	Qualitative (Presence or Absence per 25g)
		Shigella	IS 5887 (Part 7): 1999 (RA 2018)	Qualitative (Presence or Absence per 25g)
			ISO 21567: 2004	Qualitative (Presence or Absence per 25g)
		Listeria monocytogenes	IS 14988 (Part 1): 2001 (RA 2018)	Qualitative (Presence or Absence per 25g)
		Enumeration of Faecal Coliforms	Bacteriological Analytical Manual– USFD- 2017, Chapter 4	< 3 MPN/g to 1100 MPN/g
		Pseudomonas aeruginosa	IP-2014, Cl. 2.2.9	Qualitative (Presence or Absence /g)

Bhumi Rajyaguru
Convenor

Alok Jain
Program Manager

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2.	Sugar and Sugar Products (Sugar, Jaggery, Sweets and Sugar boiled Confectionary Lozenges, Chewing Gum and Bubble Gum, Ice Lollies or Edible Ice Jelly Candy Drops)	Aerobic Microbial Count/ Total Plate Count/ Total Viable Count/ Total Bacterial Count	IS 5402: 2012 (RA 2018) ISO 4833: 2003 ISO 4833-1: 2013	≥ 10 cfu/g ≥ 10 cfu/g
		Yeast and Mould Count	IS 5403: 1999 (RA 2018) ISO 21527-2: 2008	≥ 10 cfu/g ≥ 10 cfu/g
		Enumeration of Coliforms	IS 5401 (Part 1): 2012 (RA 2018) ISO 4832: 2006	≥ 10 cfu/g
			IS 5401(Part 2): 2012 (RA 2018) ISO 4831:2006	< 0.3 MPN/g to 110 MPN/g
		Enterobacteriaceae	IS/ISO 7402: 1993 (RA 2018)	≥ 10 cfu/g
				< 0.3 MPN/g to 110 MPN/g
		E. coli	IS 5887 (Part 1): 1976 (RA 2018)	< 0.3 MPN/g to 110 MPN/g
				Qualitative (Presence or Absence /g)
			ISO 7251: 2005	Qualitative (Presence or Absence /25g)
				0.3 MPN to ≥110 MPN 0.18 MPN to 160 MPN
		S. aureus	IS 5887 (Part 2): 1976 (RA 2018)	Qualitative (Presence or Absence /25g)
		Faecal Streptococci	IS 5887 (Part 2): 1976 (RA 2018)	Qualitative (Presence or Absence /25g)
				< 0.3 MPN/g to 110 MPN/g

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		Salmonella spp.	ISO 6579-1: 2017	Qualitative (Presence or Absence per 25g to 375g)
			IS 5887(Part 3): 1999 (RA 2018)	Qualitative (Presence or Absence per 25g to 375g)
		Clostridium perfringens	IS 5887 (Part 4): 1999 (RA 2018)	Qualitative (Presence or Absence /25g)
		Vibrio Cholerae and Vibrio parahaemolyticus	IS 5887 (Part 5): 1976 (RA 2018)	Qualitative (Presence or Absence /25g)
		Shigella	IS 5887 (Part 7): 1999 (RA 2018)	Qualitative (Presence or Absence /25g)
			ISO 21567: 2004	Qualitative (Presence or Absence /25g)
		Listeria monocytogenes	IS 14988 (Part 1): 2001 (RA 2018)	Qualitative (Presence or Absence /25g)
		Enumeration of Faecal Coliforms	Bacteriological Analytical Manual– USFD- 2017, Chapter 4	< 3 MPN/g to 1100 MPN/g
		Pseudomonas aeruginosa	IP-2014, Cl. 2.2.9	Qualitative (Presence or Absence /g)
3.	Herbs, Spices and Condiments (Edible spice whole, ground, or mixed turmeric, chilies, cinnamon, cumin seeds,	Aerobic Microbial Count/	IS 5402: 2012 (RA 2018)	≥ 10 cfu/g
		Total Plate Count/	ISO 4833: 2003	
		Total Viable Count/	ISO 4833-1: 2013	≥ 10 cfu/g
		Total Bacterial Count		
		Yeast and Mould Count	IS 5403: 1999 (RA 2018)	≥ 10 cfu/g
			ISO 21527-2: 2008	≥ 10 cfu/g
		Enumeration of	IS 5401 (Part 1): 2012	≥ 10 cfu/g

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	cardamom, tamarind, spice blends, herbs)	Coliforms	(RA 2018) ISO 4832: 2006	
			IS 5401 (Part 2): 2012 (RA 2018) ISO 4831: 2006	< 0.3 MPN/g to 110 MPN/g
		Enterobacteriaceae	IS/ISO 7402: 1993 (RA 2018)	≥ 10 cfu/g
				< 0.3 MPN/g to 110 MPN/g
		E. coli	IS 5887 (Part 1): 1976 (RA 2018)	< 0.3 MPN/g to 110 MPN/g
				Qualitative (Presence or Absence /g)
			ISO 7251: 2005	Qualitative (Presence or Absence /25g)
				0.3 MPN to ≥110 MPN 0.18 MPN to 160 MPN
		Staphylococcus aureus	IS 5887 (Part 2): 1976 (RA 2018)	Qualitative (Presence or Absence /25g)
			IS 5887 (Part 8/Section-1): 2002 (RA 2018) ISO 6888-1: 1999	≥ 10 cfu/g
			ISO 6888-1: 1999 Ammd-1 2003	≥ 10 cfu/g
		Faecal Streptococci	IS 5887 (Part 2): 1976 (RA 2018)	Qualitative (Presence or Absence /25g)
				< 0.3 MPN/g to 110 MPN/g
		Salmonella spp.	IS 5887(Part 3): 1999 (RA 2018)	Qualitative (Presence or Absence per 25g to 375g)

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			ISO 6579-1: 2017	Qualitative (Presence or Absence per 25g to 375g)
		Clostridium perfringens	IS 5887 (Part 4): 1999 (RA 2018)	Qualitative (Presence or Absence /25g)
		Vibrio Cholerae and Vibrio parahaemolyticus	IS 5887 (Part 5): 1976 (RA 2018)	Qualitative (Presence or Absence /25g)
		Bacillus cereus	IS 5887 (Part 6): 2012 (RA 2018) ISO 7932: 2006	≥ 10 cfu/g
		Shigella spp.	IS 5887 (Part 7): 1999 (RA 2018)	Qualitative (Presence or Absence /25g)
			ISO 21567: 2004	Qualitative (Presence or Absence /25g)
		Listeria monocytogenes	IS 14988 (Part 1): 2001 (RA 2018)	Qualitative (Presence or Absence /25g)
		Enumeration of Faecal Coliforms	Bacteriological Analytical Manual– USFD- 2017, Chapter 4	< 3 MPN/g to 1100 MPN/g
		Pseudomonas aeruginosa	IP-2014, Cl. 2.2.9	Qualitative (Presence or Absence /g)
4.	Oil seeds and its by products (Edible or non-edible fat, all oil seeds, groundnut, sesame,	Aerobic Microbial Count/ Total Plate Count/ Total Viable Count/ Total Bacterial Count	IS 5402: 2012 (RA 2018) ISO 4833: 2003 ISO 4833-1: 2013	≥ 10 cfu/g ≥ 10 cfu/g
		Yeast and Mould count	IS 5403: 1999 (RA 2018)	≥ 10 cfu/g
			ISO 21527-2: 2008	≥ 10 cfu/g
		Enumeration of	IS 5401 (Part 1): 2012	≥ 10 cfu/g

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	coconut, ghee, butter, tallow, cooking fat, spreading fat, any other oil (Crude / Refined / Blend) / fat)	Coliforms	(RA 2018) ISO 4832: 2006	
			IS 5401 (Part 2): 2012 (RA 2018) ISO 4831: 2006	< 0.3 MPN/g or mL to 110 MPN/g or mL
		Enterobacteriaceae	IS/ISO 7402: 1993 (RA 2018)	≥ 10 cfu/g
				< 0.3 MPN/g to 110 MPN/g
		E. coli	IS 5887 (Part 1): 1976 (RA 2018)	< 0.3 MPN/g to 110 MPN/g
				Qualitative (Presence or Absence /g)
			ISO 7251: 2005	Qualitative (Presence or Absence /25g)
				0.3 MPN to ≥110 MPN 0.18 MPN to 160 MPN
		S. aureus	IS 5887 (Part 2): 1976 (RA 2018)	Qualitative (Presence or Absence /25g)
			IS 5887 (Part 8/Section-1): 2002 (RA 2018) ISO 6888-1: 1999	≥ 10 cfu/g
			ISO 6888-1: 1999 Ammd-1 2003	≥ 10 cfu/g
		Faecal Streptococci	IS 5887 (Part 2): 1976 (RA 2018)	Qualitative (Presence or Absence /25g)
				< 0.3 MPN/g to 110 MPN/g
		Salmonella spp.	IS 5887 (Part 3): 1999 (RA 2018)	Qualitative (Presence or Absence per 25g to 375g)

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			ISO 6579-1: 2017	Qualitative (Presence or Absence per 25g to 375g)
		Clostridium perfringens	IS 5887 (Part 4): 1999 (RA 2018)	Qualitative (Presence or Absence /25g)
		Vibrio cholerae and V. parahaemolyticus	IS 5887 (Part 5): 1976 (RA 2018)	Qualitative (Presence or Absence /25g)
		Bacillus cereus	IS 5887 (Part 6): 2012 (RA 2018) ISO 7932: 2006	≥ 10 cfu/g
		Shigella	IS 5887 (Part 7): 1999 (RA 2018)	Qualitative (Presence or Absence /25g)
			ISO 21567: 2004	Qualitative (Presence or Absence /25g)
		Listeria monocytogenes	IS 14988 (Part 1): 2001 (RA 2018)	Qualitative (Presence or Absence /25g)
		Enumeration of Faecal Coliforms	Bacteriological Analytical Manual– USFD- 2017, Chapter 4	< 3 MPN/g to 1100 MPN/g
		Pseudomonas aeruginosa	IP-2014, Cl. 2.2.9	Qualitative (Presence or Absence /g)
5.	Poultry and Poultry Products (Egg and Egg Products Raw egg, egg powder, whole egg	Aerobic Microbial Count/ Total Plate Count/ Total Viable Count/ Total Bacterial Count	IS 5402: 2012 (RA 2018) ISO 4833: 2003 ISO 4833-1: 2013	≥ 10 cfu/g ≥ 10 cfu/g
		Yeast and Mould count	IS 5403: 1999 (RA 2018)	≥ 10 cfu/g
			ISO 21527-1: 2008	≥ 10 cfu/g
		Enumeration of	IS 5401 (Part 1): 2012	≥ 10 cfu/g

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	powder, Albumin & yolk, chicken)	Coliforms	(RA 2018) ISO 4832: 2006	
			IS 5401 (Part 2): 2012 (RA 2018) ISO 4831: 2006	< 0.3 MPN/g to 110 MPN/g
		Enterobacteriaceae	IS/ISO 7402: 1993 (RA 2018)	≥ 10 cfu/g
				< 0.3 MPN/g to 110 MPN/g
		E. coli	IS 5887 (Part 1): 1976 (RA 2018)	< 0.3 MPN/g to 110 MPN/g
				Qualitative (Presence or Absence /g)
			ISO 7251: 2005	Qualitative (Presence or Absence /25g)
				0.3 MPN to ≥110 MPN 0.18 MPN to 160 MPN
		Staphylococcus aureus	IS 5887 (Part 2): 1976 (RA 2018)	Qualitative (Presence or Absence /25g)
			IS 5887 (Part 8/Section-1): 2002 (RA 2018) ISO 6888-1: 1999	≥ 10 cfu/g
			ISO 6888-1: 1999 Ammd-1 2003	≥ 10 cfu/g
		Faecal streptococci	IS 5887 (Part 2): 1976 (RA 2018)	Qualitative (Presence or Absence /25g)
				< 0.3 MPN/g to 110 MPN/g
		Salmonella spp.	IS5887 (Part 3): 1999 (RA 2018)	Qualitative (Presence or Absence per 25g to 375g)

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			ISO 6579-1: 2017	Qualitative (Presence or Absence per 25g to 375g)
		Vibrio cholerae and Vibrio parahaemolyticus	IS 5887 (Part 5): 1976 (RA 2018)	Qualitative (Presence or Absence /25g)
		Bacillus cereus	IS 5887 (Part 6): 2012 (RA 2018) ISO 7932: 2004	≥ 10 cfu/g
		Clostridium perfringens	IS 5887 (Part 4): 1999 (RA 2018)	Qualitative (Presence or Absence /25g)
		Shigella	IS 5887 (Part 7): 1999 (RA 2018)	Qualitative (Presence or Absence /25g)
			ISO 21567: 2004	Qualitative (Presence or Absence /25g)
		Listeria monocytogenes	IS 14988 (Part 1): 2001 (RA 2018)	Qualitative (Presence or Absence /25g)
		Enumeration of Faecal Coliforms	Bacteriological Analytical Manual– USFD- 2017, Chapter 4	< 3 MPN/g to 1100 MPN/g
6.	Meat and meat products	Aerobic Microbial Count/ Total Plate Count/	IS 5402: 2012 (RA 2018)	≥ 10 cfu/g
		Total Viable Count/ Total Bacterial Count	ISO 4833: 2003 ISO 4833-1: 2013	≥ 10 cfu/g
		Yeast and Mould count	IS 5403: 1999 (RA 2018)	≥ 10 cfu/g
			ISO 21527-1: 2008	≥ 10 cfu/g
		Enumeration of Coliforms	IS 5401 (Part 1): 2012 (RA 2018) ISO 4832: 2006	≥ 10 cfu/g

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			IS 5401 (Part 2): 2012 (RA 2018) ISO 4831: 2006	< 0.3 MPN/g to 110 MPN/g
		Enterobacteriaceae	IS/ISO 7402: 1993 (RA 2018)	≥ 10 cfu/g
				< 0.3 MPN/g to 110 MPN/g
		E. coli	IS 5887 (Part 1): 1976 (RA 2018)	< 0.3 MPN/g to 110 MPN/g
				Qualitative (Presence or Absence/g)
			ISO 7251: 2005	Qualitative (Presence or Absence /25g)
				0.3 MPN to ≥110 MPN 0.18 MPN to 160 MPN
		Staphylococcus aureus	IS 5887 (Part 2): 1976 (RA 2018)	Qualitative (Presence or Absence /25g)
			IS 5887 (Part 8/Section-1): 2002 (RA 2018) ISO 6888-1: 1999	≥ 10 cfu/g
			ISO 6888-1: 1999 Ammd-1 2003	≥ 10 cfu/g
		Faecal streptococci	IS 5887 (Part 2): 1976 (RA 2018)	Qualitative (Presence or Absence /25g)
				< 0.3 MPN/g to 110 MPN/g
		Salmonella spp.	IS 5887 (Part 3): 1999 (RA 2018)	Qualitative (Presence or Absence per 25g to 375g)
			ISO 6579-1: 2017	Qualitative (Presence or Absence

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				per 25g to 375g)
		Vibrio cholerae and Vibrio parahaemolyticus	IS 5887 (Part 5): 1976 (RA 2018)	Qualitative (Presence or Absence /25g)
		Bacillus cereus	IS 5887 (Part 6): 2012 (RA 2018) ISO 7932: 2004	≥ 10 cfu/g
		Clostridium perfringens	IS 5887 (Part 4): 1999 (RA 2018)	Qualitative (Presence or Absence /25g)
		Shigella	IS 5887 (Part 7): 1999 (RA 2018)	Qualitative (Presence or Absence /25g)
			ISO 21567: 2004	Qualitative (Presence or Absence /25g)
		Listeria monocytogenes	IS 14988 (Part 1): 2001 (RA 2018)	Qualitative (Presence or Absence /25g)
		Enumeration of Faecal Coliforms	Bacteriological Analytical Manual– USFD- 2017, Chapter 4	< 3 MPN/g to 1100 MPN/g
7.	Milk and Dairy Products (Milk, Paneer, Cheese, Butter, Ghee, Chocolate and chocolate products/ Whey Products, Milk Powder / Milk-Cereal Based Foods / Processed	Aerobic Microbial Count/ Total Plate Count/ Total Viable Count/ Total Bacterial Count	IS 5402: 2012 (RA 2018) ISO 4833: 2003	≥1 cfu/mL ≥ 10 cfu/g
		Yeast and Mould count	ISO 4833-1: 2013	≥1 cfu/mL ≥ 10 cfu/g
			IS 5403: 1999 (RA 2018)	≥1 cfu/mL ≥ 10 cfu/g
			ISO 21527-1: 2008	≥1 cfu/mL ≥ 10 cfu/g
			ISO 21527-2: 2008	≥1 cfu/mL ≥ 10 cfu/g
		Enumeration of Coliforms	IS 5401 (Part 1): 2012 (RA 2018)	≥1 cfu/mL ≥ 10 cfu/g

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	Cereal Based Complementary Foods & Related products)		ISO 4832: 2006	
			IS 5401 (Part 2): 2012 (RA 2018)	≥1 cfu/mL
			ISO 4831: 2006	≥ 10 cfu/g
		Enterobacteriaceae	IS/ISO 7402: 1993 (RA 2018)	≥ 10 cfu/g
				≥1 cfu/ mL
		E. coli	IS 5887 (Part 1): 1976 (RA 2018)	≥ 10 cfu/g
				≥1 cfu/ mL
			ISO 7251: 2005	Qualitative (Presence or Absence per 25g or 25 mL)
				0.3 MPN to ≥110 MPN
				0.18 MPN to 160 MPN
		S. aureus	IS 5887 (Part 2): 1976 (RA 2018)	Qualitative (Presence or Absence /25g)
			IS 5887 (Part 8/Section-1): 2002 (RA 2018)	≥ 10 cfu/g
			ISO 6888-1: 1999	≥1 cfu/ mL
			ISO 6888-1: 1999 Ammd-1 2003	(< 0.3 MPN to 110 MPN)/g or mL
		Faecal Streptococci	IS 5887 (Part 2): 1976 (RA 2018)	(< 0.3 MPN to 110 MPN)/g or mL
				Qualitative (Presence or Absence per g or mL)
		Salmonella spp.	IS 5887 (Part 3): 1999 (RA 2018)	Qualitative (Presence or Absence per 25g or 25 mL)
			ISO 6579-1: 2017	0.3 MPN to ≥110 MPN
		Clostridium perfringens	IS 5887 (Part 4): 1999 (RA 2018)	0.18 MPN to 160 MPN
		Vibrio cholerae and Vibrio parahaemolyticus	IS 5887 (Part 5): 1976 (RA 2018)	Qualitative (Presence or Absence

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				per 25g or 25mL)
		Bacillus cereus	IS 5887 (Part 6): 2012 (RA 2018) ISO 7932: 2006	≥1 cfu/ mL or ≥ 10 cfu/g
		Shigella spp.	IS 5887 (Part 7): 1999 (RA 2018)	Qualitative (Presence or Absence per 25g or 25mL)
			ISO 21567: 2004	≥1 cfu/ mL or ≥ 10 cfu/g
		Listeria monocytogenes	IS 14988 (Part 1): 2001 (RA 2018)	≥1 cfu/ mL or ≥ 10 cfu/g
			IS 14988 (Part 2): 2002 (RA 2018)	Qualitative (Presence or Absence per 25g or 25mL)
		Enumeration of Faecal Coliforms	Bacteriological Analytical Manual– USFD- 2017, Chapter 4	(< 0.3 MPN to 110 MPN)/g or mL
		Pseudomonas aeruginosa	IP-2014, Cl. 2.2.9	Qualitative (Presence or Absence/g)
8.	Bakery and confectionery products (Biscuits, Bread, Cakes, Cookies, Cookies Mix, Cake Mix, Chocolates, Nankatai, Bread Sticks, Toast, Sugar boiled confectionary, Lozenges, Chewing gum, bubble gum,	Aerobic Microbial Count/ Total Plate Count/ Total Viable Count/ Total Bacterial Count	IS 5402: 2012 (RA 2018) ISO 4833: 2003 ISO 4833-1: 2013	≥ 10 cfu/g ≥ 10 cfu/g
		Yeast and Mould count	IS 5403: 1999 (RA 2018)	≥ 10 cfu/g
			ISO 21527-1: 2008	≥ 10 cfu/g
			ISO 21527-2: 2008	≥ 10 cfu/g
		Enumeration of Coliforms	IS 5401 (Part 1): 2012 (RA 2018) ISO 4832: 2006	≥ 10 cfu/g
			IS 5401 (Part 2): 2012 (RA 2018) ISO 4831: 2006	< 0.3 MPN/g to 110 MPN/g
		Enterobacteriaceae	IS/ISO 7402: 1993 (RA 2018)	≥ 10 cfu/g

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	Chocolate, Ice Lollies and Edible Ices)			< 0.3 MPN/g to 110 MPN/g
		E. coli	IS 5887 (Part 1): 1976 (RA 2018)	< 0.3 MPN/g to 110 MPN/g
				Qualitative (Presence or Absence/g)
			ISO 7251: 2005	Qualitative (Presence or Absence /25g)
				MPN 0.3 to ≥110 MPN 0.18 to 160
		Staphylococcus aureus	IS 5887 (Part 2): 1976 (RA 2018)	Qualitative (Presence or Absence /25g)
			IS 5887 (Part 8/Section-1): 2002 (RA 2018) ISO 6888-1: 1999	≥ 10 cfu/g
			ISO 6888-1: 1999 Ammd-1 2003	≥ 10 cfu/g
		Faecal Streptococci	IS 5887 (Part 2): 1976 (RA 2018)	Qualitative (Presence or Absence /25g)
				(< 0.3 MPN to 110 MPN)/g or mL
		Salmonella spp.	IS 5887 (Part 3): 1999 (RA 2018)	Qualitative (Presence or Absence /25 g to 375g)
			ISO 6579-1: 2017	Qualitative (Presence or Absence per 25g to 375g)

Bhumi Rajyaguru
Convenor

Alok Jain
Program Manager

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		Clostridium perfringens	IS 5887 (Part 4): 1999 (RA 2018)	Qualitative (Presence or Absence /25g)
		Vibrio cholerae and Vibrio parahaemolyticus	IS 5887 (Part 5): 1976 (RA 2018)	Qualitative (Presence or Absence /25g)
		Bacillus cereus	IS 5887 (Part 6): 2012 (RA 2018) ISO 7932: 2006	≥ 10 cfu/g
		Shigella spp.	IS 5887 (Part 7): 1999 (RA 2018)	Qualitative (Presence or Absence /25g)
			ISO 21567: 2004	Qualitative (Presence or Absence /25g)
		Listeria monocytogenes	IS 14988 (Part 1): 2001 (RA 2018)	Qualitative (Presence or Absence /25g)
		Enumeration of Faecal Coliforms	Bacteriological Analytical Manual– USFD- 2017, Chapter 4	< 3 MPN/g to 1100 MPN/g
		Pseudomonas aeruginosa	IP-2014, Cl. 2.2.9	Qualitative (Presence or Absence /g)
9.	Canned, processed foods (Ready to eat/ cook, canned or processed products)	Aerobic Microbial Count/ Total Plate Count/ Total Viable Count/ Total Bacterial Count	IS 5402: 2012 (RA 2018) ISO 4833: 2003 ISO 4833-1: 2013	≥ 10 cfu/g ≥ 10 cfu/g
		Yeast and Mould count	IS 5403: 1999 (RA 2018)	≥ 10 cfu/g
			ISO 21527-1: 2008	≥ 10 cfu/g
			ISO 21527-2: 2008	≥ 10 cfu/g
		Enumeration of Coliforms	IS 5401 (Part 1): 2012 (RA 2018)	≥ 10 cfu/g

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			ISO 4832: 2006	
			IS 5401 (Part 2): 2012 (RA 2018)	< 0.3 MPN/g to 110 MPN/g
			ISO 4831: 2006	
		Enterobacteriaceae	IS/ISO 7402: 1993 (RA 2018)	≥ 10 cfu/g
				< 0.3 MPN/g to 110 MPN/g
		E. coli	IS 5887 (Part 1): 1976 (RA 2018)	< 0.3 MPN/g to 110 MPN/g
				Qualitative (Presence or Absence /g)
			ISO 7251: 2005	Qualitative (Presence or Absence /25g)
				0.3 MPN to ≥110 MPN 0.18 MPN to 160 MPN
		Staphylococcus aureus	IS 5887 (Part 2): 1976 (RA 2018)	Qualitative (Presence or Absence /25g)
			IS 5887 (Part 8/Section-1: 2002) (RA 2018)	≥ 10 cfu/g
			ISO 6888-1: 1999	
			ISO 6888-1: 1999 Ammd-1 2003	≥ 10 cfu/g
		Salmonella	IS 5887 (Part 3): 1999 (RA 2018)	Qualitative (Presence or Absence /25 g to 375g)
			ISO 6579-1: 2017	Qualitative (Presence or Absence per 25g to 375g)
		Clostridium perfringens	IS 5887 (Part 4): 1999 (RA 2018)	Qualitative (Presence or Absence /25g)

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		Vibrio cholerae and Vibrio parahaemolyticus	IS 5887 (Part 5): 1976 (RA 2018)	Qualitative (Presence or Absence /25g)
		Bacillus cereus	IS 5887 (Part 6): 2012 (RA 2018) ISO 7936: 2006	≥ 10 cfu/g
		Shigella spp.	IS 5887 (Part 7): 1999 (RA 2018)	Qualitative (Presence or Absence /25g)
			ISO 21567: 2004	Qualitative (Presence or Absence /25g)
		Listeria monocytogenes	IS 14988 (Part 1): 2001 (RA 2018)	Qualitative (Presence or Absence /25g)
		Faecal streptococci	IS 5887 (Part 2): 1976 (RA 2018)	Qualitative (Presence or Absence /25g)
				< 0.3 MPN/g to 110 MPN/g
		Incubation at 37°C for 10 days	IS 2860: 1964 (RA 2018)	Qualitative [Negative or Positive (Change/no change in Physical /chemical characteristic; microbial activity present/absent)]
		Incubation at 55°C for 7 days	IS 2860: 1964 (RA 2018)	Qualitative [Negative or Positive (Change/no change in Physical /chemical characteristic; microbial activity present/absent)]

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		Sulphite Reducing Clostridia	ISO 15213: 2003	≥ 10 cfu/g
		Enumeration of Faecal Coliforms	Bacteriological Analytical Manual– USFD- 2017, Chapter 4	< 3 MPN/g to 1100 MPN/g
10.	Cereal and its products (Flour, Food grains, Pulses & Macaroni Products (Pasta, Vermicelli & Noodles) Malted & Malt based foods Starchy, Other related products)	Aerobic Microbial Count/ Total Plate Count/ Total Viable Count/ Total Bacterial Count	IS 5402: 2012 (RA 2018) ISO 4833: 2003	≥ 10 cfu/g
		Yeast and Mould count	ISO 4833-1: 2013	≥ 10 cfu/g
			IS 5403: 1999 (RA 2018)	≥ 10 cfu/g
			ISO 21527-2: 2008	≥ 10 cfu/g
		Enumeration of Coliforms	IS 5401 (Part 1): 2012 (RA 2018) ISO 4832: 2006	≥ 10 cfu/g
			IS 5401 (Part 2): 2012 (RA 2018) ISO 4831: 2006	< 0.3 MPN/g to 110 MPN/g
		Enterobacteriaceae	IS/ISO 7402: 1993 (RA 2018)	≥ 10 cfu/g
				< 0.3 MPN/g to 110 MPN/g
		E. coli	IS 5887 (Part 1): 1976 (RA 2018)	< 0.3 MPN/g to 110 MPN/g
				Qualitative (Presence or Absence /g)
			ISO 7251: 2005	Qualitative (Presence or Absence /25g)
				0.3 MPN to ≥110 MPN 0.18 MPN to 160 MPN
		S. aureus	IS 5887 (Part 2): 1976 (RA 2018)	Qualitative (Presence or Absence /25g)

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			IS 5887 (Part 8/Section-1): 2002 (RA 2018) ISO 6888-1: 1999	≥ 10 cfu/g
			ISO 6888-1: 1999 Ammd-1 2003	≥ 10 cfu/g
		Faecal Streptococci	IS 5887 (Part 2): 1976 (RA 2018)	Qualitative (Presence or Absence /25g)
				< 0.3 MPN/g to 110 MPN/g
		Salmonella spp.	IS 5887 (Part 3): 1999 (RA 2018)	Qualitative (Presence or Absence per 25g to 375g)
			ISO 6579-1: 2017	Qualitative (Presence or Absence per 25g to 375g)
		Clostridium perfringens	IS 5887 (Part 4): 1999 (RA 2018)	Qualitative (Presence or Absence /25g)
		Vibrio cholerae and V. parahaemolyticus	IS 5887 (Part 5): 1976 (RA 2018)	Qualitative (Presence or Absence /25g)
		Bacillus cereus	IS 5887 (Part 6): 2012 (RA 2018) ISO 7932: 2006	≥ 10 cfu/g
		Shigella	IS 5887 (Part 7): 1999 (RA 2018)	Qualitative (Presence or Absence /25g)
			ISO 21567: 2004	Qualitative (Presence or Absence /25g)
		Listeria monocytogenes	IS 14988 (Part 1): 2001 (RA 2018)	Qualitative (Presence or Absence /25g)

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		Enumeration of Faecal Coliforms	Bacteriological Analytical Manual– USFD- 2017, Chapter 4	< 3 MPN/g to 1100 MPN/g
II.	WATER			
1.	Drinking water	Coliforms	IS 1622: 1981 (RA 2014)	< 2 MPN/ 100mL to 1600 MPN/ 100mL < 1 MPN/ 100mL to 161 MPN/ 100mL
		Faecal coliform	IS 1622: 1981 (RA 2014)	< 2 MPN/ 100mL to 1600 MPN/ 100mL
		E. coli	IS 1622: 1981 (RA 2014)	< 2 MPN/ 100mL to 1600 MPN/ 100mL
		Standard plate count	IS 1622: 1981 (RA 2014)	≥1 cfu/mL
2.	Water for swimming pool and Spa	Standard Plate Count	IS 3328: 1993 Ammd-1 July 2010 (RA 2013)	≥1 cfu/mL
		Coliforms	IS 1622: 1981 (RA 2014)	< 2 MPN/ 100mL to 1600 MPN/ 100mL
III.	ENVIRONMENT AND POLLUTION			
1.	Microbiological monitoring of air	Total Plate Count	Compendium of Methods for microbiological examinations of food (5 th Edition, 2015) Chapter 3 & ISO 7218: 2007 Ammendement-01: 2013	≥1 cfu/ 90 mm plate/ Duration of Exposure
		Total Yeast & Mould Count	Compendium of Methods for microbiological examinations of food (5 th Edition, 2015) Chapter 3 & ISO 7218: 2007 Ammendement-01: 2013	≥1 cfu / 90 mm plate/ Duration of Exposure

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2.	Microbiological monitoring of surface (swab method)	Total plate Count	IS 5402: 2012 (RA 2018) ISO 4833: 2003 extended method for swabbing (based on ISO 18593: 2004.) ISO 18593: 2004 (for Swab collection)	≥1 cfu/mL
		Yeast and Mould Count	IS 5402: 2012 (RA 2018) ISO 4833: 2003 extended method for swabbing (based on ISO 18593: 2004) ISO 18593: 2004 (for Swab collection)	≥1 cfu/mL
		Coliform count	IS 5401 (Part 1): 2012 (RA 2018) ISO 4832: 2006 extended method for swabbing (based on ISO 18593: 2004) ISO 18593: 2004 (for Swab collection)	≥1 cfu/mL
		Enterobacteriaceae	IS/ISO 7402: 1993 (RA 2018) extended method for swabbing (based on ISO 18593: 2004) ISO 18593: 2004 (for Swab collection)	≥1 cfu/mL
		E. coli	IS 5887 (Part 1): 1976 (RA 2018) extended method for swabbing (based on ISO 18593:2004) ISO 18593:2004 (for Swab collection)	Qualitative (Present/ Absent per Swab)
		Salmonella	IS 5887 (Part 3): 1999 (RA 2018) Extended method for swabbing (based on ISO 18593: 2004)	Qualitative (Present/ Absent per Swab)

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			ISO 18593: 2004 (for Swab collection)	
		L. monocytogenes	IS 14988 (Part 1): 2001 (RA 2018) extended method for swabbing (based on ISO 18593: 2004) ISO 18593: 2004 (for Swab collection)	Qualitative (Present/ Absent per Swab)
		S. aureus	IS 5887 (Part 2): 1976 (RA 2018) extended method for swabbing (based on ISO 18593: 2004.) ISO 18593: 2004 (for Swab collection)	Qualitative (Present/ Absent per Swab)
		Vibrio cholerae	IS 5887 (Part 5): 1976 (RA 2018) Extended method for swabbing (based on ISO 18593:2004.) ISO 18593: 2004 (for Swab collection)	Qualitative (Present/ Absent per Swab)

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CHEMICAL TESTING

I.	FOOD AND AGRICULTURAL PRODUCTS			
1.	Cereals, Pulses and Cereal Products (Flour, Food grains, Pulses & Starchy Foods)	Particle size	IS 4706-1:1978 (RA 2015)	0.1 % to 100 %
			IS 1010: 1968 (RA 2015)	0.1 % to 100 %
			IS 1158: 1973 (RA 2010)	0.1 % to 100 %
		Granularity	IS 1155: 1968 (RA 2015)	0.1 % to 100 %
			IS 1009: 1979 (RA 2015)	0.1 % to 100 %
		Moisture	IS 4333-2: 2017	0.20 % to 25 %
			IS 1155: 1968 (RA 2015)	0.20 % to 25 %
			IS 1158: 1973 (RA 2010)	0.20 % to 25 %
			IS 1009: 1979 (RA 2015)	0.20 % to 25 %
			IS 1010: 1968 (RA 2015)	0.20 % to 25 %
		Total ash	IS 1155: 1968 (RA 2015)	0.5 % to 20 %
			IS 1009: 1979 (RA 2015)	0.5 % to 20 %
			IS 1010: 1968 (RA 2015)	0.5 % to 20 %
		Crude fiber	IS 1155: 1968 (RA 2015)	0.50 % to 25 %
			IS 10226-1: 1982 (RA 2015)	0.50 % to 25 %
			IS 1158: 1973 (RA 2010)	0.50 % to 25 %
		Protein	IS 7219: 1973 (RA 2015)	0.50 % to 20 %
		Alcoholic Acidity	IS 1155: 1968 (RA 2015)	0.01 % to 10 %
			IS 1009: 1979 (RA 2015)	0.01 % to 10 %
			IS 1158: 1973 (RA 2010)	0.01 % to 10 %
			IS 1010: 1968 (RA 2015)	0.01 % to 10 %
		Gluten	IS 1009: 1979 (RA 2015)	5 % to 20 %
			IS 1155: 1968 (RA 2015)	5 % to 20 %
			IS 1010: 1968 (RA 2015)	5 % to 20 %
		Acid insoluble ash	IS 1155: 1968 (RA 2015)	0.01 % to 5 %
			IS 1158: 1973 (RA 2010)	0.01 % to 5 %
			IS 1009: 1979 (RA 2015)	0.01 % to 5 %
			IS 1010: 1968 (RA 2015)	0.01 % to 5 %

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2.	Food grains (Wheat, Maize, Rice, Barley, gram, chick pea, Millets)	Refractions (Physical examination)		
		Foreign matter	IS 4333-1: 1996 (RA 2017)	0 to 20 %
		Other food grains	IS 4333-1: 1996 (RA 2017)	0 to 20 %
		Damaged grains	IS 4333-1: 1996 (RA 2017)	0 to 20 %
		Discolored grains	IS 4333-1: 1996 (RA 2017)	0 to 20 %
		Insect damaged grains	IS 4333-1: 1996 (RA 2017)	0 to 20 %
		Slightly damaged grains	IS 4333-1: 1996 (RA 2017)	0 to 20 %
		Broken grains	IS 4333-1: 1996 (RA 2017)	0 to 20 %
		Shriveled or immature	IS 4333-1: 1996 (RA 2017)	0 to 20 %
		Kernels with husk	IS 4333-1: 1996 (RA 2017)	0 to 20 %
		Red grain	IS 4333-1: 1996 (RA 2017)	0 to 20 %
		Chalky grain	IS 4333-1: 1996 (RA 2017)	0 to 20 %
		Mass of 1000 grains	IS 4333-4: 2017 ISO 520: 1977 (RA 2012)	5 g to 500 g
3.	Milk and Dairy products (Milk, Paneer, Cheese, Butter, Chocolate and chocolate products/ Whey Products, Milk Powder / Milk-Cereal Based Foods / Processed Cereal Based Complementary Foods)	Total solids	IS 1479-2: 1961 (RA 2017)	1 % to 100 %
			IS 12333: 2018	1 % to 100 %
			IS 1166: 1986 (RA 2017)	1 % to 100 %
			IS 2802: 1964 (RA 2016)	1 % to 100 %
		pH	FSSAI manual of methods of analysis of food – Milk and milk products- 2016	1 to 14
			IS 4238: 1967 (RA 2014)	1 to 14
		Total Fat	IS 1479-2: 1961 (RA 2017)	1 % to 15 %
			IS 11721: 2013 (RA 2017)	1 % to 15 %
			IS 10484: 1983 (RA 2014)	1 % to 15 %
		Titration acidity	IS 1479-2: 1961 (RA 2017)	0.1 % to 10 %
			IS 4238: 1967 (RA 2014)	0.1 % to 10 %
			IS 10484: 1983 (RA 2014)	0.1 % to 10 %
			IS 3507: 1966 (RA 2017)	0.1 % to 10 %
			IS 11766: 1986 (RA 2017)	0.1 % to 10 %
			IS 1166: 1986 (RA 2017)	0.1 % to 10 %

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		Crude protein	IS 7219: 1973 (RA 2015)	1 % to 40 %
			IS 1479-2: 1961 (RA 2017)	1 % to 40 %
		Sucrose	IS 1166: 1986 (RA 2017)	1 % to 70 %
			IS 2802: 1964 (RA 2016)	1 % to 70 %
			IS 4079: 1967 (RA 2016)	1 % to 70 %
		Non- protein Nitrogen	IS 1479-2: 1961 (RA 2017)	1 % to 40 %
		Adulterants	IS 1479-1: 1960 (RA 2016)	Qualitative
		Preservatives/ Neutralizers	IS 1479-1: 1960 (RA 2016)	Qualitative
		Chloride	IS 1479-2: 1961 (RA 2017)	0.1 % to 5 %
		Reducing sugar	IS 4079: 1967 (RA 2016)	1 % to 80 %
		Salt as added NaCl	IS 2785: 1979 (RA 2016)	0.1 % to 25 %
			IS 3507: 1966 (RA 2017)	0.1 % to 25 %
		Moisture	IS 11623: 2008 (RA 2017)	0.1 % to 15 %
			IS 16072: 2012 (RA 2017)	0.1 % to 15 %
		Total ash	IS 1165: 2002 (RA 2017)	0.1 % to 20 %
			IS 14433: 2007 (RA 2017)	0.1 % to 20 %
		Acid insoluble ash	IS 14433: 2007 (RA 2017)	0.01 % to 0.5 %
4.	Sugar and sugar products (Sugar, Jaggery, Sweets and Sugar boiled Confectionary Lozenges, Chewing Gum and Bubble Gum, Ice Lollies or Edible Ice Jelly Candy Drops)	Sulphated ash	IS 6287: 1985 (RA 2015)	0.1 % to 2.0 %
			FSSAI manual of method of analysis of food – Beverages, Sugar & Sugar products & confectionary – 2015	0.1 % to 2.0 %
		Moisture	IS 15279: 2003 (RA 2013)	0.1 % to 15 %
			IS 6287: 1985 (RA 2015)	0.1 % to 15 %
			IS 1163: 1992 (RA 2014)	0.1 % to 15 %
			FSSAI manual of method of analysis of food – Beverages, Sugar & Sugar products & confectionary – 2015	0.1 % to 15 %
		Total ash	IS 1163: 1992 (RA 2014)	0.1 % to 20 %
			FSSAI manual of method of analysis of food – Beverages,	0.1 % to 20 %

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			Sugar & Sugar products & confectionary – 2015	
		Acid Insoluble ash	IS 6287: 1985 (RA 2015)	0.01 % to 2 %
			IS 1163: 1992 (RA 2014)	0.01 % to 2 %
			FSSAI manual of method of analysis of food – Beverages, Sugar & Sugar products & confectionary – 2015	0.01 % to 2 %
		Sugar /Sucrose	IS 6287: 1985 (RA 2015)	1 % to 100 %
			IS 15279: 2003 (RA 2013)	1 % to 100 %
			IS 1163: 1992 (RA 2014)	1 % to 100 %
			FSSAI manual of method of analysis of food – Beverages, Sugar & Sugar products & confectionary – 2015	1 % to 100 %
		Fat	IS 1163: 1992 (RA 2014)	0.5 % to 60 %
			FSSAI manual of method of analysis of food – Beverages, Sugar & Sugar products & confectionary – 2015	0.5 % to 60 %
			IS 6287: 1985 (RA 2015)	0.5 % to 60 %
		Chocolate Component of Filled Chocolate	FSSAI manual of method of analysis of food – Beverages, Sugar & Sugar products & confectionary – 2015	1 % to 60 %
		Edible wholesome substances	IS 1163: 1992 (RA 2014)	1 % to 60 %
			FSSAI manual of method of analysis of food – Beverages, Sugar & Sugar products & confectionary – 2015	1 % to 60 %
5.	Fruit and fruit products (Thermally	Total solids	FSSAI Manual of methods for Analysis of foods - Fruit and vegetable products	1 % to 90 %

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	processed fruits, cocktails, juices, fruit nectars, fruit drink, ready to serve fruit beverages, purees, pulps, squashes, crushes, syrups, sherbets, jam, jelly, marmalade)	pH	FSSAI Manual of methods for Analysis of foods - Fruit and vegetable products	1 to 14
		Acidity	FSSAI Manual of methods for Analysis of foods - Fruit and vegetable products	1 % to 60 %
		Reducing sugar	FSSAI Manual of methods for Analysis of foods - Fruit and vegetable products	1 % to 80 %
		Sucrose	FSSAI Manual of methods for Analysis of foods - Fruit and vegetable products	1 % to 80 %
		Brix	IS 13815: 2010 (RA 2015)	1 % to 90 %
			FSSAI Manual of methods for Analysis of foods - Fruit and vegetable products	1 % to 90 %
		Acid insoluble ash	IS 13846: 2009 (RA 2013)	1 % to 10 %
			FSSAI Manual of methods for Analysis of foods - Fruit and vegetable products	1 % to 10 %
6.	Vegetable and vegetable products (Salads, Pickles, curry, paste, Sauces, masalas)	Salt as NaCl	FSSAI Manual of methods for Analysis of foods - Fruit and vegetable products	1 % to 50 %
		Total solids	FSSAI Manual of methods for Analysis of foods - Fruit and vegetable products	1 % to 90 %
		pH	FSSAI Manual of methods for Analysis of foods - Fruit and vegetable products	1 to 14
		Acidity	FSSAI Manual of methods for Analysis of foods - Fruit and vegetable products	1 % to 60 %
		Acid insoluble ash	IS 13846: 2009 (RA 2013)	1 % to 10 %
			FSSAI Manual of methods for	

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			Analysis of foods - Fruit and vegetable products	
7.	Herbs, Spices and Condiments (Edible spice whole, ground, mixed- turmeric, chillies, cinnamon, cumin seeds, cardamom, tamarind, spice blends, herbs)	Water insoluble Ash	IS 1797: 1985 (RA 2017)	0.1 % to 20 %
		Total ash	IS 1797: 1985 (RA 2017)	0.1 % to 20 %
		Alcohol Soluble extract	IS 1797: 1985 (RA 2017)	0.1 % to 20 %
		Cold water-soluble extract	IS 1797: 1985 (RA 2017)	1 % to 30 %
		Crude fiber	IS 1797: 1985 (RA 2017)	1.0 % to 30 %
			IS 10226-I: 1982 (RA 2015)	
		Salt as NaCl	IS 1797-1985 (RA 2017)	0.2 % to 20 %
		Nonvolatile ether extract	IS 1797: 1985 (RA 2017)	0.1 % to 30 %
		Acid Insoluble Ash	IS 1797: 1985 (RA 2017)	0.01 % to 20 %
		Moisture	IS 1797: 1985 (RA 2017)	1.0 % to 30 %
		Volatile Oil	IS 1797: 1985 (RA 2017)	0.5 % to 20 %
		Starch	IS 4706-2: 1978 (RA 2015)	2 % to 80 %
		Extraneous matter	IS 1797: 1985 (RA 2017)	0.1 % to 15 %
		Acidity as citric acid	IS 13242: 1991(RA 2012)	0.1 % to 40 %
8.	Edible oils and Fats (Edible or non-edible fat, Oil seeds- groundnut, sesame, coconut, butter, tallow, cooking fat, spreading fat, any Crude/ Refined/ Blend/ fat)	Curcumin content	IS 3576: 2010 (RA 2015)	0.1 % to 20 %
		Presence of chromate	IS 3576: 2010 (RA 2015)	Qualitative
		Acid Value	IS 548-1: 1964 (RA 2015)	0.10 to 10
		FFA	IS 548 -I: 1964 (RA 2015)	0.10 % to 10 %
		Iodine Value	IS 548-1: 1964 (RA 2015)	10 to 150
		Peroxide Value	IS 548-1: 1964 (RA 2015)	1 meq of O ₂ /kg to 20 meq of O ₂ /kg
		Unsaponifiable matter	IS 548-1: 1964 (RA 2015)	0.05 % to 10 %
		Refractive index	IS 548-1: 1964 (RA 2015)	1.333 to 1.700
		Moisture	IS 548-1: 1964 (RA 2015)	0.01 % to 5 %
		Saponification value	IS 548-1: 1964 (RA 2015)	1 to 200
		Color in 1-inch cell as Y+ 5R, Lovibond unit	IS 548-1: 1976 (RA 2015)	0.1 to 5
		Detection of Linseed oil (Hexabromide test)	IS 548-2: 1976 (RA 2015)	Qualitative
		Detection of	IS 548-2: 1976 (RA 2015)	Qualitative

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Hydrocyanic acid		
		Detection of Cotton seed oil (Halphen test)	IS 548-2: 1976 (RA 2015)	Qualitative
		Specific gravity	IS 548-1: 1964 (RA 2015)	0.5 to 2.0
9.	Ghee	Acid value	IS 3508: 1966 (RA 2017)	0.1 to 10
		FFA	IS 3508: 1966 (RA 2017)	0.1 % to 10 %
		Iodine value	IS 3508: 1966 (RA 2017)	10 to 150
		Moisture	IS 3508: 1966 (RA 2017)	0.01 % to 5 %
		Refractive index	IS 3508: 1966 (RA 2017)	1.333 to 1.700
		Peroxide value	IS 3508: 1966 (RA 2017)	1 meq/kg to 20 meq/kg
		Unsaponifiable matter	IS 3508: 1966 (RA 2017)	0.05 to 10
		Insoluble impurities	IS 3508: 1966 (RA 2017)	0.01 % to 25 %
10.	Bakery and confectionary products (Biscuits, Bread, Cakes, Cookies, Cookies Mix, Cake Mix, Chocolates, Nankatai, Bread Sticks, Toast, Sugar boiled confectionary, Lozenges, Chewing gum, bubble gum, Chocolate, Ice Lollies and Edible Ices,)	Moisture	IS 1011: 2002 (RA 2013)	1 % to 40 %
			IS 6287: 1985 (RA 2015)	1 % to 40 %
			IS 12711: 1989 (RA 2015)	1 % to 40 %
		Total solids	IS 1483: 1988 (RA 2015)	1 % to 90 %
			IS 12711: 1989 (RA 2015)	1 % to 90 %
		Fat	IS 6287: 1985 (RA 2015)	0.5 % to 25 %
			IS 12711: 1989 (RA 2015)	0.5 % to 25 %
		Total Ash	IS 4706-2: 1978 (RA 2015)	0.1 % to 20 %
			IS 12711: 1989 (RA 2015)	0.1 % to 20 %
		Acid insoluble ash	IS 1011: 2002 (RA 2013)	0.05 % to 10 %
			IS 6287: 1985 (RA 2015)	0.05 % to 10 %
			IS 1483: 1988 (RA 2015)	0.05 % to 10 %
			IS 12711: 1989 (RA 2015)	0.05 % to 10 %
		Sulphated ash	IS 6287: 1985 (RA 2015)	0.05 % to 20 %
		Acidity of extracted fat	IS 1011: 2002 (RA 2013)	0.01 % to 5 %
			IS 12711: 1989 (RA 2015)	0.01 % to 5 %
		Crude fiber	IS 1483: 1988 (RA 2015)	0.5 % to 25 %
			IS 10226-1: 1982 (RA 2015)	0.5 % to 25 %

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			IS 12711: 1989 (RA 2015)	0.5 % to 25 %
		pH of aqueous extract	IS 1483: 1988 (RA 2015)	2 to 14
			IS 12711: 1989 (RA 2015)	2 to 14
		Alcoholic Acidity	IS 12711: 1989 (RA 2015)	0.01 % to 5 %
		Peroxide value	IS 12711: 1989 (RA 2015)	1 meq of O ₂ /kg to 40 meq of O ₂ /kg
11.	Ready to eat/ cook products (Canned and processed food products)	Moisture	IS 12569: 1989 (RA 2015)	0.5 % to 40 %
			IS 2234: 1989 (RA 2015)	0.5 % to 40 %
			IS 4684: 1975	0.5 % to 40 %
			IS 15271: 2013	0.5 % to 40 %
			IS 13264: 1991 (RA 2017)	0.5 % to 40 %
		Total Ash	IS 4684: 1975 (RA 2015)	0.5 % to 20 %
			IS 2234: 1989 (RA 2015)	0.5 % to 20 %
		Fat	IS 4684: 1975 (RA 2015)	1.0 % to 60 %
			IS 13354: 1992 (RA 2013)	1.0 % to 60 %
			IS 12220: 1987 (RA 2015)	1.0 % to 60 %
			IS 12569: 1989 (RA 2015)	1.0 % to 60 %
			IS 15271: 2015	1.0 % to 60 %
			IS 1479 -2: 1961 (RA 2017)	1.0 % to 60 %
		Protein	IS 7219: 1973 (RA 2015)	0.5 % to 30 %
			IS 2234: 1989 (RA 2015)	0.5 % to 30 %
		Crude fiber	IS 1656: 1969 (RA 2017)	0.5 % to 25 %
			IS 2234: 1989 (RA 2015)	0.5 % to 25 %
			IS 10226-1: 1982 (RA 2010)	0.5 % to 25 %
		Acid Insoluble Ash	IS 1011: 2002 (RA 2013)	0.05 % to 10 %
			IS 12569: 1989 (RA 2015)	0.05 % to 10 %
			IS 2234: 1989 (RA 2015)	0.05 % to 10 %
			IS 12569: 1989 (RA 2015)	0.05 % to 10 %
			IS 13264: 1991 (RA 2012)	0.05 % to 10 %
			IS 15271: 2003 (RA 2015)	0.05 % to 10 %
		Acidity of extracted fat	IS 12569: 1989 (RA 2015)	0.01 % to 10 %

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			IS 15271: 2003 (RA 2013)	0.01 % to 10 %
		Carbohydrate	IS 1656: 2007 (RA 2017)	1.0 % to 99 %
			IS 2234: 1989 (RA 2015)	1.0 % to 99 %
		Energy	BV/MUM/FC/SOP/014 dated 14/07/2018	10 kcal/100g to 500 kcal/100g
		Dirt and extraneous matter	IS 2234: 1989 (RA 2015)	Qualitative
		Salt	IS 1158: 1973 (RA 2015)	0.1 % to 5.0 %
			IS 12575: 2010 (RA 2015)	0.1 % to 5.0 %
			IS 13264: 1991	0.1 % to 5.0 %
		Peroxide value	IS 15271: 2003 (RA 2013)	1 meq of O ₂ / kg to 50 meq of O ₂ / kg
		Dried fruits content	IS 13264: 1991 (RA 2017)	1 % to 25 %
II.	WATER			
1.	Drinking Water	Total dissolved solids (Filterable residue)	IS 3025-16: 1984 (RA 2006)	0.1 mg/L to 1000 mg/L
		pH	IS 3025-11: 1983 (RA 2017)	1 to 14
		Total Alkalinity as CaCO ₃	IS 3025-23: 1986 (RA 2014)	10 mg/L to 500 mg/L
		Chloride	IS 3025-32: 1988 (RA 2014)	1 mg/L to 500 mg/L
		Total hardness as CaCO ₃	IS 3025-21: 2009 (RA 2014)	0 to 500 mg/L
		Free residual chlorine	IS 3025-26: 1986 (RA 2014)	0 to 50 mg/L