

Laboratory **Oasis Test House Limited, SP-2, 22 Godown Industrial Area, Jaipur, Rajasthan**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-6559**

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Validity **24.10.2018 to 23.10.2020**

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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.	<b>DRUGS &amp; PHARMACEUTICALS</b>			
A.	<b>Antibiotics</b>			
1.	<b>Erythromycin Stearate</b>	Microbiological Assay	IP 2018 (Page No. 50-58)	Not less than 600 IU/mg
2.	<b>Erythromycin Stearate Tablets</b>	Microbiological Assay	IP 2018 (Page No. 50-58)	Not less than 90% to Not more than 115%
3.	<b>Gentamicin Sulphate Injection IP</b>	Microbiological Assay	IP 2018 (Page No. 50-58)	Not less than 95% to Not more than 110%
B.	<b>Microbial Limit Tests</b>			
1.	<b>Tablets, Capsules, Powder, Pessaries, Suppositories &amp; Enema etc.</b>	Total Aerobic Viable Count (TAC)/Total Bacterial Count/Total Aerobic Microbial Count (TAMC)	IP 2018 (Page No. 38-42), BP 2018 (App. XVI B) USP 41 (Chapter 61) (Page No. 5965-5971)	≥ 10 CFU/ml or/g
		Total Fungal Count (TFC)/Total Combined Yeasts & Mould Count/Total Combined Yeasts and Molds Count (TYMC)	IP 2018 (Page No. 38-42), BP 2018 (App. XVI B) USP 41 (Chapter 61) (Page No. 5965-5971)	≥ 10 CFU/ml or/g
		Escherichia coli	IP 2018 (Page No. 42-49), BP 2018 (App. XVI B) USP 41 (Chapter 62) (Page No. 5971-5978)	Present/Absent Per ml or g
		Pseudomonas aeruginosa	IP 2018 (Page No. 42-49), BP 2018 (App. XVI B) USP 41 (Chapter 62) (Page No. 5971-5978)	Present/Absent Per ml or g
		Staphylococcus aureus	IP 2018 (Page No. 42-49), BP 2018 (App. XVI B) USP 41 (Chapter 62) (Page No. 5971-5978)	Present/Absent Per ml or g

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		Candida albicans	IP 2018 (Page No. 42-49), BP 2018 (App. XVI B) USP 41 (Chapter 62) (Page No. 5971-5978)	Present/Absent Per ml or g
2.	<b>Syrup, Suspension, Emulsion, Gargles, Mouthwashes etc.</b>	Total Aerobic Viable Count (TAC)/Total Bacterial Count/Total Aerobic Microbial Count (TAMC)	IP 2018 (Page No. 38-42), BP 2018 (App. XVI B) USP 41 (Chapter 61) (Page No. 5965-5971)	≥10 CFU/ml or/g
		Total Fungal Count (TFC)/Total Combined Yeasts & Mould Count/Total Combined Yeasts and Molds Count (TYMC)	IP 2018 (Page No. 38-42), BP 2018 (App. XVI B) USP 41 (Chapter 61) (Page No. 5965-5971)	≥10 CFU/ml or/g
		Escherichia coli	IP 2018 (Page No. 42-49), BP 2018 (App. XVI B) USP 41 (Chapter 62) (Page No. 5971-5978)	Present/Absent Per ml or g
		Pseudomonas aeruginosa	IP 2018 (Page No. 42-49), BP 2018 (App. XVI B) USP 41 (Chapter 62) (Page No. 5971-5978)	Present/Absent Per ml or g
		Staphylococcus aureus	IP 2018 (Page No. 42-49), BP 2018 (App. XVI B) USP 41 (Chapter 62) (Page No. 5971-5978)	Present/Absent Per ml or g
		Salmonella	IP 2018 (Page No. 42-49), BP 2018 (App. XVI B) USP 41 (Chapter 62) (Page No. 5971-5978)	Present/Absent Per 10ml or 10g
3.	<b>Creams, Ointments, Gel, Paste, Lotion etc.</b>	Total Aerobic Viable Count (TAC)/Total Bacterial Count/Total Aerobic Microbial Count (TAMC)	IP 2018 (Page No. 38-42), BP 2018 (App. XVI B) USP 41 (Chapter 61) (Page No. 5965-5971)	≥10 CFU/ml or/g
		Total Fungal Count (TFC)/Total Combined	IP 2018 (Page No. 38-42), BP 2018 (App. XVI B)	≥10 CFU/ml or/g

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		Yeasts & Mould Count/Total Combined Yeasts and Molds Count (TYMC)	USP 41 (Chapter 61) (Page No. 5965-5971)	
		Escherichia coli	IP 2018 (Page No. 42-49), BP 2018 (App. XVI B) USP 41 (Chapter 62) (Page No. 5971-5978)	Present/Absent Per ml or g
		Pseudomonas aeruginosa	IP 2018 (Page No. 42-49), BP 2018 (App. XVI B) USP 41 (Chapter 62) (Page No. 5971-5978)	Present/Absent Per ml or g
		Staphylococcus aureus	IP 2018 (Page No. 42-49), BP 2018 (App. XVI B) USP 41 (Chapter 62) (Page No. 5971-5978)	Present/Absent Per ml or g
		Salmonella	IP 2018 (Page No. 42-49), BP 2018 (App. XVI B) USP 41 (Chapter 62) (Page No. 5971-5978)	Present/Absent Per 10ml or 10g
		Shigella	IP 2018 (Page No. 42-49)	Present/Absent Per 10 ml or 10 g
4.	<b>Ear drops, Nasal Drops/Sprays, Inhaler.</b>	Total Aerobic Viable Count (TAC)/Total Bacterial Count/Total Aerobic Microbial Count (TAMC)	IP 2018 (Page No. 38-42), BP 2018 (App. XVI B) USP 41 (Chapter 61) (Page No. 5965-5971)	≥10 CFU/ml or/g
		Total Fungal Count (TFC)/Total Combined Yeasts & Mould Count/Total Combined Yeasts and Molds Count (TYMC)	IP 2018 (Page No. 38-42), BP 2018 (App. XVI B) USP 41 (Chapter 61) (Page No. 5965-5971)	≥10 CFU/ml or/g
		Pseudomonas aeruginosa	IP 2018 (Page No. 42-49), BP 2018 (App. XVI B) USP 41 (Chapter 62) (Page No. 5971-5978)	Present/Absent Per ml or g
		Staphylococcus aureus	IP 2018 (Page No. 42-49),	Present/Absent

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			BP 2018 (App. XVI B) USP 41 (Chapter 62) (Page No. 5971-5978)	Per ml or g
		Bile-Tolerant gram Negative Bacteria	IP 2018 (Page No. 42-49), BP 2018 (App. XVI B) USP 41 (Chapter 62) (Page No. 5971-5978)	Present/Absent Per ml or g
<b>5.</b>	<b>Raw Materials</b>	Total Aerobic Viable Count (TAC)/Total Bacterial Count/Total Aerobic Microbial Count (TAMC)	IP 2018 (Page No. 38-42), BP 2018 (App. XVI B) USP 41 (Chapter 61) (Page No. 5965-5971)	≥10 CFU/ml or/g
		Total Fungal Count (TFC)/Total Combined Yeasts & Mould Count/Total Combined Yeasts & Molds Count (TYMC)	IP 2018 (Page No. 38-42), BP 2018 (App. XVI B) USP 41 (Chapter 61) (Page No. 5965-5971)	≥10 CFU/ml or/g
		Escherichia coli	IP 2018 (Page No. 42-49), BP 2018 (App. XVI B) USP 41 (Chapter 62) (Page No. 5971-5978)	Present/Absent Per ml or g
		Salmonella	IP 2018 (Page No. 42-49), BP 2018 (App. XVI B) USP 41 (Chapter 62) (Page No. 5971-5978)	Present/Absent Per 10ml or 10g
		Pseudomonas aeruginosa	IP 2018 (Page No. 42-49), BP 2018 (App. XVI B) USP 41 (Chapter 62) (Page No. 5971-5978)	Present/Absent Per ml or g
		Staphylococcus aureus	IP 2018 (Page No. 42-49), BP 2018 (App. XVI B) USP 41 (Chapter 62) (Page No. 5971-5978)	Present/Absent Per ml or g
		Shigella	IP 2018 (Page No. 42-49)	Present/Absent Per 10ml or 10 g
		Clostridia	IP 2018 (Page No. 42-49),	Present/Absent

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			BP 2018 (App. XVI B) USP 41 (Chapter 62) (Page No. 5971-5978)	Per ml or g
		Candida albicans	IP 2018 (Page No. 42-49), BP 2018 (App. XVI B) USP 41 (Chapter 62) (Page No. 5971-5978)	Present/Absent Per ml or g
		Bile-Tolerant gram Negative Bacteria	IP 2018 (Page No. 42-49), BP 2018 (App. XVI B) USP 41 (Chapter 62) (Page No. 5971-5978)	Present/Absent Per ml or g
<b>II.</b>	<b>AYUSH PRODUCTS HERBAL FORMULATION</b>			
<b>1.</b>	<b>Herbs and Herbal products</b>	Total Aerobic Viable Count (TAC)/Total Bacterial Count/Total Aerobic Microbial Count (TAMC)	IP 2018 (Page No. 38-42), BP 2018 (App. XVI)	≥10 CFU/ml or/g
		Total Fungal Count (TFC)/Total Combined Yeasts & Mould Count (TYMC)	IP 2018 (Page No. 38-42), BP 2018 (App. XVI)	≥10 CFU/ml or/g
		Escherichia coli	IP 2018 (Page No. 42-49), BP 2018 (App. XVI)	Present/Absent Per ml or per g Less than 10 CFU/Per ml or/g
		Salmonella	IP 2018 (Page No. 42-49), BP 2018 (App. XVI)	Present/Absent Per 10ml or 25ml or Per 10g or 25g
		Shigella	IP 2018 (Page No. 42-49),	Present/Absent Per 10 ml or 10g
		Bile-Tolerant gram Negative Bacteria	IP 2018 (Page No. 42-49), BP 2018 (App. XVI)	Less than 10 CFU/Per ml or per g

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III.	<b>FOOD &amp; AGRICULTURAL PRODUCTS</b>			
1.	<b>Herbs ,Spices and Condiments</b>	Total Plate Count/Aerobic Mesophilic Plate Count/Aerobic Plate count	IS 5402:2012 USFDA-BAM:2001 chapter 3 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml
		Yeast & Mould count	IS 5403:1999 (RA 2018) ISO 21527 (Part 2):2008 (E) USFDA-BAM:2001 Chapter 18 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml
		Coliforms	IS 5401 (Part 1):2012 (RA 2018) IS 5401 (Part 2):2012 (RA 2018) ISO 4832:2006 ISO 4831:2006 USFDA-BAM:2001 Chapter 4 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml MPN <0.03 to >1100 MPN/g or/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Escherichia coli	IS 5887 (Part 1):1976 (RA 2018) USFDA-BAM:2001 Chapter 4 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Aerobic spore count/Aerobic Mesophilic Spores/Bacillus cereus	IS 5887 (Part 6):2012 (RA 2018) ISO 7932:2004 USFDA-BAM:2001 (update 2012) Chapter 14 FSSAI Lab Manual Vol. 14	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or

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			(2017)	0.1 ml/1 ml/10 ml/25 ml
		Salmonella	IS 5887 (Part 3):1999 (RA 2018) USFDA-BAM:Chapter 5 FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Shigella	IS 5887 (Part 7):1999 (RA 2018) FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Staphylococcus aureus	IS 5887 (Part 2):1976 (RA 2018) ISO 6888-1:1999 (amendment 1) USFDA-BAM:2001 Chapter 12 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Vibrio cholerae	IS 5887 (Part 5 ):1976 (RA 2018) USFDA-BAM:2004 Chapter 9 FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Faecal Streptococci (enterococci)	IS 5887 (Part 2):1976 (RA 2018)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Vibrio parahaemolyticus	IS 5887 (Part 5 ):1976 (RA 2018) USFDA-BAM:2004 Chapter 9 FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
2.	<b>Milk and Dairy Products</b>	Total Plate Count/Aerobic Mesophillic Plate	IS 5402:2012 (RA 2018) USFDA-BAM:2001 chapter 3	Quantitative ≥10 CFU/g

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		Count/Aerobic Plate count	FSSAI Lab Manual Vol. 14 (2017)	≥1 CFU/ml
		Yeast & Mould count	IS 5403:1999 (RA 2018) ISO 21527 (Part 2):2008 (E) USFDA-BAM:2001 Chapter 18 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml
		Coliforms	IS 5401 (Part 1):2012 (RA 2018) IS 5401 (Part 2):2012 (RA 2018) ISO 4832:2006 ISO 4831:2006 USFDA-BAM:2001 Chapter 4 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml MPN <0.03 to >1100 MPN/g or/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Escherichia coli	IS 5887 (Part 1):1976 (RA 2018) USFDA-BAM:2001 Chapter 4 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Aerobic spore count/Aerobic Mesophilic Spores/Bacillus cereus	IS 5887 (Part 6):2012 (RA 2018) ISO 7932:2004 USFDA-BAM:2001 (update 2012) Chapter 14 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Salmonella	IS 5887 (Part 3):1999 (RA 2018) USFDA-BAM:Chapter 5	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or



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			FSSAI Lab Manual Vol. 14 (2017)	0.1 ml/1 ml/10 ml/25 ml
		Shigella	IS 5887 (Part 7):1999 (RA 2018) FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Staphylococcus aureus	IS 5887 (Part 2):1976 (RA 2018) ISO 6888-1:1999 (amendment 1) USFDA-BAM:2001 Chapter 12 FSSAI Lab Manual Vol. 14 (2017)	Quantitative $\geq 10$ CFU/g $\geq 1$ CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Vibrio cholerae	IS 5887 (Part 5 ):1976 (RA 2018) USFDA-BAM:2004 Chapter 9 FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Faecal Streptococci (enterococci)	IS 5887 (Part 2):1976 (RA 2018)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Vibrio parahaemolyticus	IS 5887 (Part 5 ):1976 (RA 2018) USFDA-BAM:2004 Chapter 9 FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Lactic Acid Bacteria (Mesophilic)	IS 16068:2013 ISO 15214:1998	Quantitative $\geq 10$ CFU/g $\geq 1$ CFU/ml
<b>3.</b>	<b>Edible Oils &amp; Fats</b>	Total Plate Count/Aerobic Mesophilic Plate	IS 5402:2012 (RA 2018) USFDA-BAM:2001 chapter 3	Quantitative $\geq 10$ CFU/g

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		Count/Aerobic Plate count	FSSAI Lab Manual Vol. 14 (2017)	≥1 CFU/ml
		Yeast & Mould count	IS 5403:1999 (RA 2018) ISO 21527 (Part 2):2008 (E) USFDA-BAM:2001 Chapter 18 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml
		Coliforms	IS 5401 (Part 1):2012 (RA 2018) IS 5401 (Part 2):2012 (RA 2018) ISO 4832:2006 ISO 4831:2006 USFDA-BAM:2001 Chapter 4 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml MPN <0.03 to >1100 MPN/g or/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Escherichia coli	IS 5887 (Part 1):1976 (RA 2018) USFDA-BAM:2001 Chapter FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Staphylococcus aureus	IS 5887 (Part 2):1976 (RA 2018) ISO 6888-1:1999 (amendment 1) USFDA-BAM:2001 Chapter 12 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Salmonella	IS 5887 (Part 3):1999 (RA 2018)	Qualitative (Present/Absent) in

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			USFDA-BAM:Chapter 5 FSSAI Lab Manual Vol. 14 (2017)	0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Shigella	IS 5887 (Part 7):1999 (RA 2018) FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
4.	<b>Fruits &amp; Fruit Products</b>	Total Plate Count/Aerobic Mesophilic Plate Count/Aerobic Plate count	IS 5402:2012 (RA 2018) USFDA-BAM:2001 chapter 3 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml
		Yeast & Mould count	IS 5403:1999 (RA 2018) ISO 21527 (Part 2):2008 (E) USFDA-BAM:2001 Chapter 18 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml
		Coliforms	IS 5401 (Part 1):2012 (RA 2018) IS 5401 (Part 2):2012 (RA 2018) ISO 4832:2006 ISO 4831:2006 USFDA-BAM:2001 Chapter 4 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml MPN <0.03 to >1100 MPN/g or/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Escherichia coli	IS 5887 (Part 1):1976 (RA 2018) USFDA-BAM:2001 Chapter FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Aerobic spore	IS 5887 (Part 6):2012	Quantitative

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		count/Aerobic Mesophilic Spores/Bacillus cereus	(RA 2018) ISO 7932:2004 USFDA-BAM:2001 (update 2012) Chapter 14 FSSAI Lab Manual Vol. 14 (2017)	≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Salmonella	IS 5887 (Part 3):1999 (RA 2018) USFDA-BAM:Chapter 5 FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Shigella	IS 5887 (Part 7):1999 (RA 2009) FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Staphylococcus aureus	IS 5887 (Part 2):1976 (RA 2018) ISO 6888-1:1999 (amendment 1) USFDA-BAM:2001 Chapter 12 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Vibrio cholerae	IS 5887 (Part 5 ):1976 (RA 2018) USFDA-BAM:2004 Chapter 9 FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Vibrio parahaemolyticus	IS 5887 (Part 5 ):1976 (RA 2018) USFDA-BAM:2004 Chapter 9 FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml

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5.	Vegetables & Vegetables Products	Total Plate Count/Aerobic Mesophilic Plate Count/Aerobic Plate count	IS 5402:2012 (RA 2018) USFDA-BAM:2001 chapter 3 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml
		Yeast & Mould count	IS 5403:1999 (RA 2018) ISO 21527 (Part 2):2008 (E) USFDA-BAM:2001 Chapter 18 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml
		Coliforms	IS 5401 (Part 1):2012 (RA 2018) IS 5401 (Part 2):2012 (RA 2018) ISO 4832:2006 ISO 4831:2006 USFDA-BAM:2001 Chapter 4 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml MPN <0.03 to >1100 MPN/g or/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Escherichia coli	IS 5887 (Part 1):1976 (RA 2018) USFDA-BAM:2001 Chapter FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Aerobic spore count/Aerobic Mesophilic Spores/Bacillus cereus	IS 5887 (Part 6):2012 (RA 2018) ISO 7932:2004 USFDA-BAM:2001 (update 2012) Chapter 14 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Salmonella	IS 5887 (Part 3):1999	Qualitative

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			(RA 2018) USFDA-BAM:Chapter 5 FSSAI Lab Manual Vol. 14 (2017)	(Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Shigella	IS 5887 (Part 7):1999 (RA 2018) FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Staphylococcus aureus	IS 5887 (Part 2):1976 (RA 2018) ISO 6888-1:1999 (amendment 1) USFDA-BAM:2001 Chapter 12 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Vibrio cholerae	IS 5887 (Part 5 ):1976 (RA 2018) USFDA-BAM:2004 Chapter 9 FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Vibrio parahaemolyticus	IS 5887 (Part 5 ):1976 (RA 2018) USFDA-BAM:2004 Chapter 9 FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
6.	Cereals and cereals products	Total Plate Count/Aerobic Mesophillic Plate Count/Aerobic Plate count	IS 5402:2012 (RA 2018) USFDA-BAM:2001 chapter 3 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml
		Yeast & Mould count	IS 5403:1999 (RA 2018) ISO 21527 (Part 2):2008 (E) USFDA-BAM:2001 Chapter 18 FSSAI Lab Manual Vol. 14	Quantitative ≥10 CFU/g ≥1 CFU/ml

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			(2017)	
		Coliforms	IS 5401 (Part 1):2002 (RA 2018) IS 5401 (Part 2):2012 (RA 2018) ISO 4832:2006 ISO 4831:2006 USFDA-BAM:2001 Chapter 4 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml MPN <0.03 to >1100 MPN/g or/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Escherichia coli	IS 5887 (Part 1):1976 (RA 2018) USFDA-BAM:2001 Chapter 4 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Aerobic spore count/Aerobic Mesophilic Spores/Bacillus cereus	IS 5887 (Part 6):2012 (RA 2018) ISO 7932:2004 USFDA-BAM:2001 (update 2012) Chapter 14 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Salmonella	IS 5887 (Part 3):1999 (RA 2018) USFDA-BAM:Chapter 5 FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Shigella	IS 5887 (Part 7):1999 (RA 2018) FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Staphylococcus aureus	IS 5887 (Part 2):1976	Quantitative

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			(RA 2018) ISO 6888-1:1999 (amendment 1) USFDA-BAM:2001 Chapter 12 FSSAI Lab Manual Vol. 14 (2017)	≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Vibrio cholerae	IS 5887 (Part 5 ):1976 (RA 2018) USFDA-BAM:2004 Chapter 9 FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Faecal Streptococci (enterococci)	IS 5887 (Part 2):1976 (RA 2018)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Vibrio parahaemolyticus	IS 5887 (Part 5 ):1976 (RA 2018) USFDA-BAM:2004 Chapter 9 FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Rope Spore count	IS 7463:2004 (RA 2013)	Quantitative ≥10 CFU/g
7.	Tea	Total Plate Count/Aerobic Mesophillic Plate Count/Aerobic Plate count	IS 5402:2012 (RA 2018) USFDA-BAM:2001 chapter 3 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml
		Yeast & Moulds count	IS 5403:1999 (RA 2018) ISO 21527 (Part 2):2008 (E) USFDA-BAM:2001 Chapter 18 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml
		Coliforms	IS 5401 (Part 1):2012 (RA 2018)	Quantitative ≥10 CFU/g



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			IS 5401 (Part 2):2012 (RA 2018) ISO 4832:2006 ISO 4831:2006 USFDA-BAM:2001 Chapter 4 FSSAI Lab Manual Vol. 14 (2017)	≥1 CFU/ml MPN <0.03 to >1100 MPN/g or/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Escherichia coli	IS 5887 (Part 1):1976 (RA 2018) USFDA-BAM:2001 Chapter 4 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Aerobic spore count/Aerobic Mesophilic Spores/Bacillus cereus	IS 5887 (Part 6):2012 (RA 2018) ISO 7932:2004 USFDA-BAM:2001 (update 2012) Chapter 14 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Salmonella	IS 5887 (Part 3):1999 (RA 2018) USFDA-BAM:Chapter 5 FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Shigella	IS 5887 (Part 7):1999 (RA 2018) FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Staphylococcus aureus	IS 5887 (Part 2):1976 (RA 2018) ISO 6888-1:1999 (amendment 1)	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative

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			USFDA-BAM:2001 Chapter 12 FSSAI Lab Manual Vol. 14 (2017)	(Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Vibrio cholerae	IS 5887 (Part 5 ):1976 (RA 2018) USFDA-BAM:2004 Chapter 9 FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Vibrio parahaemolyticus	IS 5887 (Part 5 ):1976 (RA 2018) USFDA-BAM:2004 Chapter 9 FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Faecal Streptococci (enterococci)	IS 5887 (Part 2):1976 (RA 2018)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
8.	<b>Beverages (Alcoholic/Non Alcoholic )</b>	Total Plate Count/Aerobic Mesophillic Plate Count/Aerobic Plate count	IS 5402:2012 (RA 2018) USFDA-BAM:2001 chapter 3 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml
		Yeast & Mould count	IS 5403:1999 (RA 2018) ISO 21527 (Part 2):2008 (E) USFDA-BAM:2001 Chapter 18 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml
		Coliforms	IS 5401 (Part 1):2012 (RA 2018) IS 5401 (Part 2):2012 (RA 2018) ISO 4832:2006	Quantitative ≥10 CFU/g ≥1 CFU/ml MPN <0.03 to >1100 MPN/g

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			ISO 4831:2006 USFDA-BAM:2001 Chapter 4 FSSAI Lab Manual Vol. 14 (2017)	or/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Escherichia coli	IS 5887 (Part 1):1976 (RA 2018) USFDA-BAM:2001 Chapter 4 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Aerobic spore count/Aerobic Mesophilic Spores/Bacillus cereus	IS 5887 (Part 6):2012 (RA 2018) ISO 7932:2004 USFDA-BAM:2001 (update 2012) Chapter 14 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Salmonella	IS 5887 (Part 3):1999 (RA 2018) USFDA-BAM:Chapter 5 FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Shigella	IS 5887 (Part 7):1999 (RA 2018) FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Staphylococcus aureus	IS 5887 (Part 2):1976 (RA 2018) ISO 6888-1:1999 ( amendment 1) USFDA-BAM:2001 Chapter 12 FSSAI Lab Manual Vol. 14	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml

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			(2017)	
		Vibrio cholerae	IS 5887 (Part 5 ):1976 (RA 2018) USFDA-BAM:2004 Chapter 9 FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Faecal Streptococci (enterococci)	IS 5887 (Part 2):1976 (RA 2018)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Vibrio parahaemolyticus	IS 5887 (Part 5 ):1976 (RA 2018) USFDA-BAM:2004 Chapter 9 FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
9.	<b>Bakery &amp; Confectionery Products</b>	Total Plate Count/Aerobic Mesophilic Plate Count/Aerobic Plate count	IS 5402:2012 (RA 2018) USFDA-BAM:2001 chapter 3 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml
		Yeast & Mould count	IS 5403:1999 (RA 2018) ISO 21527 (Part 2):2008 (E) USFDA-BAM:2001 Chapter 18 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml
		Coliforms	IS 5401 (Part 1):2012 (RA 2018) IS 5401 (Part 2):2012 (RA 2018) ISO 4832:2006 ISO 4831:2006 USFDA-BAM:2001 Chapter 4	Quantitative ≥10 CFU/g ≥1 CFU/ml MPN <0.03 to >1100 MPN/g or/ml Qualitative (Present/Absent) in 0.1

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			FSSAI Lab Manual Vol. 14 (2017)	g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Escherichia coli	IS 5887 (Part 1):1976 (RA 2018) USFDA-BAM:2001 Chapter 4 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Aerobic spore count/Aerobic Mesophilic Spores/Bacillus cereus	IS 5887 (Part 6):2012 (RA 2018) ISO 7932:2004 USFDA-BAM:2001 (update 2012) Chapter 14 FSSAI Lab Manual Vol. 14 (2017)	Qualitative Present/Absent in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml Quantitative ≥10 CFU/g ≥1 CFU/ml
		Salmonella	IS 5887 (Part 3):1999 (RA 2018) USFDA-BAM:Chapter 5 FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Shigella	IS 5887 (Part 7):1999 (RA 2018) FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Staphylococcus aureus	IS 5887 (Part 2):1976 (RA 2018) ISO 6888-1:1999 ( amendment 1) USFDA-BAM:2001 Chapter 12 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Vibrio cholerae	IS 5887 (Part 5 ):1976 (RA 2018)	Qualitative (Present/Absent) in

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			USFDA-BAM:2004 Chapter 9 FSSAI Lab Manual Vol. 14 (2017)	0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Faecal Streptococci (enterococci)	IS 5887 (Part 2):1976 (RA 2018)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Vibrio parahaemolyticus	IS 5887 (Part 5 ):1976 (RA 2018) USFDA-BAM:2004 Chapter 9 FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
10.	<b>Sugar &amp; sugar products</b>	Total Plate Count/Aerobic Mesophilic Plate Count/Aerobic Plate count	IS 5402:2012 USFDA-BAM:2001 Chapter 3 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml
		Yeast & Moulds count	IS 5403:1999 (RA 2018) ISO 21527 (Part 2):2008 (E) USFDA-BAM:2001 Chapter 18 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml
		Coliforms	IS 5401 (Part 1):2012 (RA 2018) IS 5401 (Part 2):2012 (RA 2018) ISO 4832:2006 ISO 4831:2006 USFDA-BAM:2001 Chapter 4 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml MPN <0.03 to >1100 MPN/g or/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Escherichia coli	IS 5887 (Part 1):1976	Quantitative

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			(RA 2018) USFDA-BAM:2001 Chapter 4 FSSAI Lab Manual Vol. 14 (2017)	≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Salmonella	IS 5887 (Part 3):1999 (RA 2018) USFDA-BAM:Chapter 5 FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Shigella	IS 5887 (Part 7):1999 (RA 2018) FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
11.	<b>Canned &amp; Processed Foods</b>	Total Plate Count/Aerobic Mesophilic Plate Count/Aerobic Plate count	IS 5402:2012 USFDA-BAM:2001 chapter 3 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml
		Yeast & Mould count	IS 5403:1999 (RA 2018) ISO 21527 (Part 2):2008 (E) USFDA-BAM:2001 Chapter 18 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml
		Coliforms	IS 5401 (Part 1):2012 (RA 2018) IS 5401 (Part 2):2012 (RA 2018) ISO 4832:2006 ISO 4831:2006 USFDA-BAM:2001 Chapter 4 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml MPN <0.03 to >1100 MPN/g or/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml

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		Escherichia coli	IS 5887 (Part 1):1976 (RA 2018) USFDA-BAM:2001 Chapter 4 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Aerobic spore count/Aerobic Mesophilic Spores/Bacillus cereus	IS 5887 (Part 6):2012 (RA 2018) ISO 7932:2004 USFDA-BAM:2001 (update 2012) Chapter 14 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Salmonella	IS 5887 (Part 3):1999 (RA 2018) USFDA-BAM:Chapter 5 FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Shigella	IS 5887 (Part 7):1999 (RA 2018) FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Staphylococcus aureus	IS 5887 (Part 2):1976 (RA 2018) ISO 6888-1:1999 (amendment 1) USFDA-BAM:2001 Chapter 12 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Vibrio cholerae	IS 5887 (Part 5 ):1976 (RA 2018) USFDA-BAM:2004 Chapter 9	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml



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			FSSAI Lab Manual Vol. 14 (2017)	
		Faecal Streptococci (enterococci)	IS 5887 (Part 2):1976 (RA 2018)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Vibrio parahaemolyticus	IS 5887 (Part 5 ):1976 (RA 2018) USFDA-BAM:2004 Chapter 9 FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
12.	Coffee & Cocoa Products	Total Plate Count/Aerobic Mesophillic Plate Count/Aerobic Plate count	IS 5402:2012 (RA 2018) USFDA-BAM:2001 chapter 3 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml
		Yeast & Mould count	IS 5403:1999 (RA 2018) ISO 21527 (Part 2):2008 (E) USFDA-BAM:2001 Chapter 18 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml
		Coliforms	IS 5401 (Part 1):2012 (RA 2018) IS 5401 (Part 2):2012 (RA 2018) ISO 4832:2006 ISO 4831:2006 USFDA-BAM:2001 Chapter 4 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml MPN <0.03 to >1100 MPN/g or/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Escherichia coli	IS 5887 (Part 1):1976 (RA 2018) USFDA-BAM:2001	Quantitative ≥10 CFU/g ≥1 CFU/ml

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			Chapter 4 FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Aerobic spore count/Aerobic Mesophilic Spores/Bacillus cereus	IS 5887 (Part 6):2012 (RA 2018) ISO 7932:2004 USFDA-BAM:2001 (update 2012) Chapter 14 FSSAI Lab Manual Vol. 14 (2017)	Quantitative $\geq 10$ CFU/g $\geq 1$ CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Salmonella	IS 5887 (Part 3):1999 (RA 2018) USFDA-BAM:Chapter 5 FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Shigella	IS 5887 (Part 7):1999 (RA 2018) FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Staphylococcus aureus	IS 5887 (Part 2):1976 (RA 2018) ISO 6888-1:1999 (amendment 1) USFDA-BAM:2001 Chapter 12 FSSAI Lab Manual Vol. 14 (2017)	Quantitative $\geq 10$ CFU/g $\geq 1$ CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Faecal Streptococci (enterococci)	IS 5887 (Part 2):1976 (RA 2018)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
13.	Eggs & Egg Products	Total Plate Count/Aerobic Mesophilic Plate Count/Aerobic Plate count	IS 5402:2012 (RA 2018) USFDA-BAM:2001 chapter 3 FSSAI Lab Manual Vol. 14	Quantitative $\geq 10$ CFU/g $\geq 1$ CFU/ml

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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
			(2017)	
		Yeast & Mould count	IS 5403:1999 (RA 2018) ISO 21527 (Part 2):2008 (E) USFDA-BAM:2001 Chapter 18 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml
		Coliforms	IS 5401 (Part 1):2012 (RA 2018) IS 5401 (Part 2):2012 (RA 2018) ISO 4832:2006 ISO 4831:2006 USFDA-BAM:2001 Chapter 4 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml MPN <0.03 to >1100 MPN/g or/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Escherichia coli	IS 5887 (Part 1):1976 (RA 2018) USFDA-BAM:2001 Chapter 4 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Aerobic spore count/Aerobic Mesophilic Spores/Bacillus cereus	IS 5887 (Part 6):2012 (RA 2018) ISO 7932:2004 USFDA-BAM:2001 (update 2012) Chapter 14 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Salmonella	IS 5887 (Part 3):1999 (RA 2018) USFDA-BAM:Chapter 5 FSSAI Lab Manual Vol. 14	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml

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			(2017)	
		Shigella	IS 5887 (Part 7):1999 (RA 2018) FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Staphylococcus aureus	IS 5887 (Part 2):1976 (RA 2018) ISO 6888-1:1999 (amendment 1) USFDA-BAM:2001 Chapter 12 FSSAI Lab Manual Vol. 14 (2017)	Quantitative $\geq 10$ CFU/g $\geq 1$ CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Faecal Streptococci (enterococci)	IS 5887 (Part 2):1976 (RA 2018)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
14.	<b>Honey &amp; Honey Products</b>	Total Plate Count/Aerobic Mesophilic Plate Count/Aerobic Plate count	IS 5402:2012 (RA 2018) USFDA-BAM:2001 chapter 3 FSSAI Lab Manual Vol. 14 (2017)	Quantitative $\geq 10$ CFU/g $\geq 1$ CFU/ml
		Yeast & Mould count	IS 5403:1999 (RA 2018) ISO 21527 (Part 2):2008 (E) USFDA-BAM:2001 Chapter 18 FSSAI Lab Manual Vol. 14 (2017)	Quantitative $\geq 10$ CFU/g $\geq 1$ CFU/ml
		Coliforms	IS 5401 (Part 1):2012 (RA 2018) IS 5401 (Part 2):2012 (RA 2018) ISO 4832:2006 ISO 4831:2006 USFDA-BAM:2001 Chapter 4	Quantitative $\geq 10$ CFU/g $\geq 1$ CFU/ml MPN <0.03 to >1100 MPN/g or/ml Qualitative (Present/Absent) in 0.1

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			FSSAI Lab Manual Vol. 14 (2017)	g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Escherichia coli	IS 5887 (Part 1):1976 (RA 2018) USFDA-BAM:2001 Chapter 4 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Aerobic spore count/Aerobic Mesophilic Spores/Bacillus cereus	IS 5887 (Part 6):2012 (RA 2018) ISO 7932:2004 USFDA-BAM:2001 (update 2012) Chapter 14 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Salmonella	IS 5887 (Part 3):1999 (RA 2018) USFDA-BAM:Chapter 5 FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Shigella	IS 5887 (Part 7):1999 (RA 2018) FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Staphylococcus aureus	IS 5887 (Part 2):1976 (RA 2018) ISO 6888-1:1999 (amendment 1) USFDA-BAM:2001 Chapter 12 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Faecal Streptococci (enterococci)	IS 5887 (Part 2):1976 (RA 2018)	Qualitative (Present/Absent) in

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				0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
15.	Infant Foods	Total Plate Count/Aerobic Mesophilic Plate Count/Aerobic Plate count	IS 5402:2012 (RA 2018) USFDA-BAM:2001 chapter 3 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml
		Yeast & Mould count	IS 5403:1999 (RA 2018) ISO 21527 (Part 2):2008 (E) USFDA-BAM:2001 Chapter 18 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml
		Coliforms	IS 5401 (Part 1):2012 (RA 2012) IS 5401 (Part 2):2012 (RA 2018) ISO 4832:2006 ISO 4831:2006 USFDA-BAM:2001 Chapter 4 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml MPN <0.03 to >1100 MPN/g or/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Escherichia coli	IS 5887 (Part 1):1976 (RA 2018) USFDA-BAM:2001 Chapter 4 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Aerobic spore count/Aerobic Mesophilic Spores/Bacillus cereus	IS 5887 (Part 6):2012 (RA 2018) ISO 7932:2004 USFDA-BAM:2001 (update 2012) Chapter 14 FSSAI Lab Manual Vol. 14	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or

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			(2017)	0.1 ml/1 ml/10 ml/25 ml
		Salmonella	IS 5887 (Part 3):1999 (RA 2018) USFDA-BAM:Chapter 5 FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Shigella	IS 5887 (Part 7):1999 (RA 2018) FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Staphylococcus aureus	IS 5887 (Part 2):1976 (RA 2018) ISO 6888-1:1999 (amendment 1) USFDA-BAM:2001 Chapter 12 FSSAI Lab Manual Vol. 14 (2017)	Quantitative $\geq 10$ CFU/g $\geq 1$ CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Faecal Streptococci (enterococci)	IS 5887 (Part 2):1976 (RA 2018)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
<b>16.</b>	<b>Jams, Juices, Sauces &amp; Concentrates</b>	Total Plate Count/Aerobic Mesophillic Plate Count/Aerobic Plate count	IS 5402:2012 USFDA-BAM:2001 chapter 3 FSSAI Lab Manual Vol. 14 (2017)	Quantitative $\geq 10$ CFU/g $\geq 1$ CFU/ml
		Yeast & Mould count	IS 5403:1999 (RA 2018) ISO 21527 (Part 2):2008 (E) USFDA-BAM:2001 Chapter 18 FSSAI Lab Manual Vol. 14 (2017)	Quantitative $\geq 10$ CFU/g $\geq 1$ CFU/ml
		Coliforms	IS 5401 (Part 1):2012 (RA 2018) IS 5401 (Part 2):2012	Quantitative $\geq 10$ CFU/g $\geq 1$ CFU/ml

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			(RA 2018) ISO 4832:2006 ISO 4831:2006 USFDA-BAM:2001 Chapter 4 FSSAI Lab Manual Vol. 14 (2017)	MPN <0.03 to >1100 MPN/g or/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Escherichia coli	IS 5887 (Part 1):1976 (RA 2018) USFDA-BAM:2001 Chapter 4 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Aerobic spore count/Aerobic Mesophilic Spores/Bacillus cereus	IS 5887 (Part 6):2012 (RA 2018) ISO 7932:2004 USFDA-BAM:2001 (update 2012) Chapter 14 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Salmonella	IS 5887 (Part 3):1999 (RA 2018) USFDA-BAM:Chapter 5 FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Shigella	IS 5887 (Part 7):1999 (RA 2018) FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Staphylococcus aureus	IS 5887 (Part 2):1976 (RA 2018) ISO 6888-1:1999 (amendment 1) USFDA-BAM:2001	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1



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			Chapter 12 FSSAI Lab Manual Vol. 14 (2017)	g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Vibrio cholerae	IS 5887 (Part 5 ):1976 (RA 2018) USFDA-BAM:2004 Chapter 9 FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Faecal Streptococci (enterococci)	IS 5887 (Part 2):1976 (RA 2018)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Vibrio parahaemolyticus	IS 5887 (Part 5 ):1976 (RA 2018) USFDA-BAM:2004 Chapter 9 FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
17.	<b>Nut &amp; Nut Products</b>	Total Plate Count/Aerobic Mesophillic Plate Count/Aerobic Plate count	IS 5402:2012 (RA 2018) USFDA-BAM:2001 chapter 3 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml
		Yeast & Mould count	IS 5403:1999 (RA 2018) ISO 21527 (Part 2):2008 (E) USFDA-BAM:2001 Chapter 18 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml
		Coliforms	IS 5401 (Part 1):2012 (RA 2012) IS 5401 (Part 2):2012 (RA 2018) ISO 4832:2006 ISO 4831:2006	Quantitative ≥10 CFU/g ≥1 CFU/ml MPN <0.03 to >1100 MPN/g or/ml

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			USFDA-BAM:2001 Chapter 4 FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Escherichia coli	IS 5887 (Part 1):1976 (RA 2018) USFDA-BAM:2001 Chapter 4 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Aerobic spore count/Aerobic Mesophilic Spores/Bacillus cereus	IS 5887 (Part 6):2012 (RA 2018) ISO 7932:2004 USFDA-BAM:2001 (update 2012) Chapter 14 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Salmonella	IS 5887 (Part 3):1999 (RA 2018) USFDA-BAM:Chapter 5 FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Shigella	IS 5887 (Part 7):1999 (RA 2018) FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Staphylococcus aureus	IS 5887 (Part 2):1976 (RA 2018) ISO 6888-1:1999 (amendment 1) USFDA-BAM:2001 Chapter 12 FSSAI Lab Manual Vol. 14 (2017)	Qualitative Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml

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		Vibrio cholerae	IS 5887 (Part 5 ):1976 (RA 2018) USFDA-BAM:2004 Chapter 9 FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Faecal Streptococci (enterococci)	IS 5887 (Part 2):1976 (RA 2018)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Vibrio parahaemolyticus	IS 5887 (Part 5 ):1976 (RA 2018) USFDA-BAM:2004 Chapter 9 FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
18.	<b>Starch &amp; starch Products</b>	Total Plate Count/Aerobic Mesophilic Plate Count/Aerobic Plate count	IS 5402:2012 (RA 2018) USFDA-BAM:2001 chapter 3 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml
		Yeast & Mould count	IS 5403:1999 (RA 2018) ISO 21527 (Part 2):2008 (E) USFDA-BAM:2001 Chapter 18 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml
		Coliforms	IS 5401 (Part 1):2012 (RA 2018) IS 5401 (Part 2):2012 (RA 2018) ISO 4832:2006 ISO 4831:2006 USFDA-BAM:2001 Chapter 4 FSSAI Lab Manual Vol. 14	Quantitative ≥10 CFU/g ≥1 CFU/ml MPN <0.03 to >1100 MPN/g or/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or

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			(2017)	0.1 ml/1 ml/10 ml/25 ml
		Escherichia coli	IS 5887 (Part 1):1976 (RA 2018) USFDA-BAM:2001 Chapter 4 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Aerobic spore count/Aerobic Mesophilic Spores/Bacillus cereus	IS 5887 (Part 6):2012 (RA 2018) ISO 7932:2004 USFDA-BAM:2001 (update 2012) Chapter 14 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Salmonella	IS 5887 (Part 3):1999 (RA 2018) USFDA-BAM:Chapter 5 FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Shigella	IS 5887 (Part 7):1999 (RA 2018) FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Staphylococcus aureus	IS 5887 (Part 2):1976 (RA 2018) ISO 6888-1:1999 (amendment 1) USFDA-BAM:2001 Chapter 12 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Faecal Streptococci (enterococci)	IS 5887 (Part 2):1976 (RA 2018)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or

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				0.1 ml/1 ml/10 ml/25 ml
19.	<b>Snacks &amp; Instant Mixes</b>	Total Plate Count/Aerobic Mesophilic Plate Count/Aerobic Plate count	IS 5402:2012 (RA 2018) USFDA-BAM:2001 chapter 3 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml
		Yeast & Mould count	IS 5403:1999 (RA 2018) ISO 21527 (Part 2):2008 (E) USFDA-BAM:2001 Chapter 18 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml
		Coliforms	IS 5401 (Part 1):2002 (RA 2007) IS 5401 (Part 2):2012 (RA 2018) ISO 4832:2006 ISO 4831:2006 USFDA-BAM:2001 Chapter 4 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml MPN <0.03 to >1100 MPN/g or/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Escherichia coli	IS 5887 (Part 1):1976 (RA 2018) USFDA-BAM:2001 Chapter 4 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Aerobic spore count/Aerobic Mesophilic Spores/Bacillus cereus	IS 5887 (Part 6):2012 (RA 2018) ISO 7932:2004 USFDA-BAM:2001 (update 2012) Chapter 14 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml

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		Salmonella	IS 5887 (Part 3):1999 (RA 2018) USFDA-BAM:Chapter 5 FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Shigella	IS 5887 (Part 7):1999 (RA 2018) FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Staphylococcus aureus	IS 5887 (Part 2):1976 (RA 2018) ISO 6888-1:1999 (amendment 1) USFDA-BAM:2001 Chapter 12 FSSAI Lab Manual Vol. 14 (2017)	Quantitative $\geq 10$ CFU/g $\geq 1$ CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Vibrio cholerae	IS 5887 (Part 5 ):1976 (RA 2018) USFDA-BAM:2004 Chapter 9 FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Faecal Streptococci (enterococci)	IS 5887 (Part 2):1976 (RA 2018)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Vibrio parahaemolyticus	IS 5887 (Part 5 ):1976 (RA 2018) USFDA-BAM:2004 Chapter 9 FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
<b>20.</b>	<b>Other Specified Food Items</b>	Total Plate Count/Aerobic Mesophillic Plate	IS 5402:2012 (RA 2018) USFDA-BAM:2001 chapter 3	Quantitative $\geq 10$ CFU/g

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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
	(Ready to eat foods)	Count/Aerobic Plate count	FSSAI Lab Manual Vol. 14 (2017)	≥1 CFU/ml
		Yeast & Mould count	IS 5403:1999 (RA 2018) ISO 21527 (Part 2):2008 (E) USFDA-BAM:2001 Chapter 18 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml
		Coliforms	IS 5401 (Part 1):2012 (RA 2018) IS 5401 (Part 2):2012 (RA 2018) ISO 4832:2006 ISO 4831:2006 USFDA-BAM:2001 Chapter 4 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml MPN <0.03 to >1100 MPN/g or/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Escherichia coli	IS 5887 (Part 1):1976 (RA 2018) USFDA-BAM:2001 Chapter 4 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Aerobic spore count/Aerobic Mesophilic Spores/Bacillus cereus	IS 5887 (Part 6):2012 (RA 2018) ISO 7932:2004 USFDA-BAM:2001 (update 2012) Chapter 14 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Salmonella	IS 5887 (Part 3):1999 (RA 2018) USFDA-BAM:Chapter 5	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or

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			FSSAI Lab Manual Vol. 14 (2017)	0.1 ml/1 ml/10 ml/25 ml
		Shigella	IS 5887 (Part 7):1999 (RA 2018) FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Staphylococcus aureus	IS 5887 (Part 2):1976 (RA 2018) ISO 6888-1:1999 (amendment 1) USFDA-BAM:2001 Chapter 12 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥10 CFU/g ≥1 CFU/ml Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Vibrio cholerae	IS 5887 (Part 5 ):1976 (RA 2018) USFDA-BAM:2004 Chapter 9 FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Faecal Streptococci (enterococci)	IS 5887 (Part 2):1976 (RA 2018)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
		Vibrio parahaemolyticus	IS 5887 (Part 5 ):1976 (RA 2018) USFDA-BAM:2004 Chapter 9 FSSAI Lab Manual Vol. 14 (2017)	Qualitative (Present/Absent) in 0.1 g/1 g/10 g/25 g or 0.1 ml/1 ml/10 ml/25 ml
<b>IV.</b>	<b>WATER</b>			
<b>1.</b>	<b>Packaged Drinking Water</b>	Escherichia coli	IS 15185:2016 ISO 9308-1:2014	Qualitative (Present/Absent/250ml)



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		Coliforms bacteria	IS 5401 (Part 1):2012 (RA 2018) ISO 4832:1991 IS 15185:2016 ISO 9308-1:2014	Qualitative (Present/Absent/250ml)
		Faecal streptococci	IS 5887 (Part 2):1976 (RA 2018)	Qualitative (Present/Absent/250ml)
		Staphylococcus aureus,	IS 5887 (Part 2):1976 (RA 2018)	Qualitative (Present/Absent/250ml)
		Sulphite reducing anaerobes	IS 13428:2005 (RA 2014) Annexure C	Qualitative (Present/Absent/50ml)
		Pseudomonas aeruginosa	IS 13428:2005 (RA 2014) Annexure D	Qualitative (Present/Absent/250ml)
		Aerobic Microbial count at 37 °C	IS:5402:2012 (RA 2018)	Qualitative ≥1 CFU/ml
		Aerobic Microbial count at 22 °C	IS:5402:2012 (RA 2018)	Qualitative ≥1 CFU/ml
		Yeast & mould	IS:5403:1999 (RA 2018)	Qualitative (Present/Absent/250ml)
		Salmonella	IS 15187:2016 ISO 19250:2010	Qualitative (Present/Absent/250ml)
		Shigella	IS 5887 (Part 7):1999 (RA 2018)	Qualitative (Present/Absent/250ml)
		Vibrio cholera	IS 5887 (Part 5 ):1976 (RA 2018)	Qualitative (Present/Absent/250ml)
		Vibrio. parahaemolyticus	IS 5887 (Part 5 ):1976 (RA 2018)	Qualitative (Present/Absent/250ml)
<b>2.</b>	<b>Natural Mineral water</b>	Escherichia coli	IS 5887 (Part 1):1976 (RA 2018) IS 15185:2016 ISO 9308-1:2014	Qualitative (Present/Absent/250ml)
		Coliforms bacteria	IS 5401 (Part 1):2012 (RA 2018) ISO 4832:1991 IS 15185:2016	Qualitative (Present/Absent/250ml)

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			ISO 9308-1:2014	
		Faecal streptococci	IS 5887 (Part 2):1976 (RA 2018)	Qualitative (Present/Absent/250ml)
		Staphylococcus aureus,	IS 5887 (Part 2):1976 (RA 2018)	Qualitative (Present/Absent/250ml)
		Sulphite reducing anaerobes	IS 13428:2005 (RA 2014) Annexure C	Qualitative (Present/Absent/50ml)
		Pseudomonas aeruginosa	IS 13428:2005 (RA 2014) Annexure D	Qualitative (Present/Absent/250ml)
		Yeast and mould	IS:5403:1999 (RA 2018)	Qualitative (Present/Absent/250ml)
		Salmonella	IS 15187:2016 ISO 19250:2010	Qualitative (Present/Absent/250ml)
		Shigella	IS 5887 (Part 7):1999 (RA 2018)	Qualitative (Present/Absent/250ml)
		Vibrio cholera	IS 5887 (Part 5 ):1976 (RA 2018)	Qualitative (Present/Absent/250ml)
		V. parahaemolyticus	IS 5887 (Part 5 ):1976 (RA 2018)	Qualitative (Present/Absent/250ml)
<b>3.</b>	<b>Water for Processed Food Industries</b>	Standard Plate Count	IS 1622:1981 (RA 2009)	Quantitative $\geq 1$ CFU/ml
		Lipolytic bacteria count	IS 4251:1967 (RA 2009)	Quantitative $\geq 1$ CFU/ml
		Proteolytic bacteria count	IS 4251:1967 (RA 2009)	Quantitative $\geq 1$ CFU/ml
		Thermophilic bacteria count	IS 4251:1967 (RA 2009)	Quantitative $\geq 1$ CFU/ml
		Coliforms	IS 1622:1981 (RA 2009)	Quantitative $< 2$ MPN/100ml Qualitative (Present/Absent)/ml
<b>4.</b>	<b>Drinking Water</b>	Standard Plate Count	IS 1622:1981 (RA 2009)	Quantitative $\geq 1$ CFU/ml
		Coliforms	IS 1622:1981 (RA 2009)	Quantitative

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				<2 MPN/100ml Qualitative (Present/Absent)/ml
		Escherichia .coli	IS 1622:1981 (RA 2009)	Quantitative <2 MPN/100ml Qualitative (Present/Absent)/ml
		Faecal Coliforms	IS 1622:1981 (RA 2009)	Quantitative <2 MPN/100ml Qualitative (Present/Absent)/ml
5.	Swimming Pool Water/SPA Water	Standard Plate Count	IS 1622:1981 (RA 2009)	Quantitative ≥1 CFU/ml
		Coliforms	IS 1622:1981 (RA 2009)	Quantitative <2 MPN/100ml Qualitative (Present/Absent)/ml
		Escherichia .coli	IS 1622:1981 (RA 2009)	(Quantitative <2 MPN/100ml Qualitative (Present/Absent)/ml
		Faecal Coliforms	IS 1622:1981 (RA 2009)	Quantitative <2 MPN/100ml Qualitative (Present/Absent)/ml
V.	<b>ENVIRONMENT AND POLLUTION</b>			
1.	Effluent water/waste water	Coliforms	IS 1622:1981 (RA 2009)	Quantitative <2 MPN to > 1600 MPN/100ml Qualitative (Present/Absent) in 0.1 ml/1 ml/10 ml/25 ml
		Escherichia coli	IS 1622:1981 (RA 2009)	Quantitative

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				<2 MPN to > 1600 MPN/100ml Qualitative (Present/Absent) in 0.1 ml/1 ml/10 ml/25 ml
2.	<b>Environment Surface testing using swab method</b>	Total Plate Count/Aerobic Mesophilic Plate Count/Aerobic Plate count	IS 5402:2012 (RA 2018)	Quantitative ≥1 CFU/cm <sup>2</sup> /100cm <sup>2</sup> /Swab
		Coliforms	IS 5401 (Part 1):2012 (RA 2018) IS 5401 (Part 2):2012 (RA 2018) ISO 4832:2006 ISO 4831:2006	Quantitative ≥1 CFU/cm <sup>2</sup> /100cm <sup>2</sup> /Swab Qualitative Absent/Present/cm <sup>2</sup> /100cm <sup>2</sup> /Swab
		Staphylococcus aureus	IS 5887 (Part 2):1976 (RA 2018) ISO 6888-1:1999 (amendment 1) USFDA-BAM:2001 Chapter 12 FSSAI Lab Manual Vol. 14 (2017)	Quantitative ≥1 CFU/cm <sup>2</sup> /100cm <sup>2</sup> /Swab Qualitative Absent/Present/cm <sup>2</sup> /100cm <sup>2</sup> /Swab
		Yeast and mould count	IS 5403:1999 (RA 2018)	Quantitative ≥1 CFU/cm <sup>2</sup> /100cm <sup>2</sup> /Swab
		Escherichia coli	IS 5887 (Part 1):1976 (RA 2018)	Quantitative ≥1 CFU/cm <sup>2</sup> /100cm <sup>2</sup> /Swab Qualitative Absent/Present/cm <sup>2</sup> /100cm <sup>2</sup> /Swab
		Salmonella	IS 5887 (Part 3):1999 (RA 2018)	Qualitative Absent/Present/cm <sup>2</sup> /100cm <sup>2</sup> /Swab

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**CHEMICAL TESTING**

<b>I.</b>	<b>DRUGS &amp; PHARMACEUTICALS</b>			
<b>A.</b>	<b>Raw Materials</b>			
<b>1.</b>	<b>Aceclofenac</b>	Identification A by IR	IP 2018 (Page No. 1143)	Qualitative
		Sulphated Ash		0.01% to 1.0%
<b>2.</b>	<b>Alprazolam</b>	Identification A by IR	IP 2018 (Page No. 1180)	Qualitative
		Sulphated Ash		0.01% to 1.0%
<b>3.</b>	<b>Amitriptyline hydrochloride</b>	Identification A by IR	IP 2018 (Page No. 1216)	Qualitative
		Sulphated Ash		0.01% to 0.1%
		pH		2.0 to 13.0
<b>4.</b>	<b>Amoxicillin Trihydrate</b>	Identification A by IR	IP 2018 (Page No. 1230)	Qualitative
		Sulphated Ash		0.01% to 0.1%
		pH		2.0 to 13.0
<b>5.</b>	<b>Atenolol</b>	Identification A by IR	IP 2018 (Page No. 1281)	Qualitative
<b>6.</b>	<b>Atorvastatin Calcium</b>	Identification A by IR	IP 2018 (Page No. 1286)	Qualitative
<b>7.</b>	<b>Ceftriaxone sodium</b>	Identification A by IR	IP 2018 (Page No. 1540)	Qualitative
<b>8.</b>	<b>Cephalexin</b>	Identification A by IR	IP 2018 (Page No. 1553)	Qualitative
<b>9.</b>	<b>Cetirizine hydrochloride</b>	pH	IP 2018 (Page No. 1559)	2.0 to 13.0
		Identification A by IR		Qualitative
		Sulphated Ash		0.01% to 0.2%
<b>10.</b>	<b>Chlorpheniramine maleate</b>	Identification A by IR	IP 2018 (Page No. 1596)	Qualitative
		pH		2.0 to 13.0
		Related substances by TLC		Qualitative
		Sulphated Ash		0.01% to 0.1%
<b>11.</b>	<b>Ciprofloxacin hydrochloride</b>	Identification A by IR	IP 2018 (Page No. 1629)	Qualitative
		pH		2.0 to 13.0

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		Sulphated Ash		0.01% to 0.1%
12.	Clarithromycin	Identification A by IR	IP 2018 (Page No.1643)	Qualitative
13.	Clotrimazole	Identification A by IR	IP 2018 (Page No. 1678)	Qualitative
		Sulphated Ash		0.01% to 0.1%
		LOD		0.01% to 0.5%
		Assay by Titration		50.0% to 102% (ODB)
14.	Dexamethasone sodium phosphate	Identification A by IR	IP 2018 (Page No. 1779)	Qualitative
		pH		2.0 to 13.0
15.	Diazepam	Identification A by IR	IP 2018 (Page No.1801)	Qualitative
16.	Diclofenac sodium	pH	IP 2018 (Page No. 1808)	2.0 to 13.0
		Identification A by IR		Qualitative
17.	Erythromycin Stearate	Identification by TLC	IP 2018 (Page No. 1973)	Qualitative
		Identification B & C by Chemical Analysis		Qualitative
		pH		2.0 to 13.0
		Related substance by TLC		Qualitative
		Sulphated Ash		0.01% to 0.5%
		Water		0.01% to 4.0%
18.	Fluconazole	Identification A by IR	IP 2018 (Page No. 2065)	Qualitative
19.	Furazolidone	Identification A by IR	IP 2018 Page No.2138)	Qualitative
		pH		2.0 to 13.0
20.	Metronidazole	Identification A by IR	IP 2018 (Page No. 2593)	Qualitative
21.	Ofloxacin	Identification A by IR	IP 2018 (Page No. 2767)	Qualitative
		Sulphated Ash		0.01% to 0.1%
22.	Ondansetron hydrochloride	Identification A by IR	IP 2018 (Page No. 2787)	Qualitative
		Sulphated Ash		0.01% to 0.1%
23.	Paracetamol	Identification A by IR	IP 2018 (Page No. 2853)	Qualitative
		Sulphated Ash		0.01% to 0.1%
		LOD		0.01% to 0.5%
		Assay by Titration		50.0% to 102% (ODB)
24.	Propranolol	pH	IP 2018 (Page No. 3023)	2.0 to 13.0

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	<b>hydrochloride</b>			
		Identification A by IR		Qualitative
25.	<b>Pyridoxine hydrochloride</b>	Identification A by IR	IP 2018 (Page No. 3046)	Qualitative
		pH		2.0 to 13.0
		Sulphated Ash		0.01% to 0.1%
		LOD		0.01% to 0.5%
		Assay by Titration		50.0% to 101% (ODB)
26.	<b>Ranitidine hydrochloride</b>	Identification A by IR	IP 2018 (Page No. 3094)	Qualitative
		pH		2.0 to 13.0
		Sulphated Ash		0.01% to 0.1%
27.	<b>Riboflavin</b>	pH	IP 2018 (Page No. 3111)	2.0 to 13.0
		Identification A by IR		Qualitative
		Sulphated Ash		0.01% to 0.1%
		LOD		0.01% to 1.5%
		Assay by UV		50.0% to 150%
<b>B.</b>	<b>Finished products</b>			
1.	<b>Aceclofenac tablets</b>	Uniformity of weight	IP 2018 (Page No. 1145)	0.02 g to 2 g
		Identification by HPLC		Qualitative
		Dissolution by UV		50.0 to 150 % of stated amount of Aceclofenac
		Related substance by HPLC		Qualitative
		Assay by HPLC		50.0% to 150 % of stated amount
2.	<b>Cefixime tablets</b>	Uniformity of weight	IP 2018 (Page No. 1525)	0.02 g to 2 g
		Identification by HPLC		Qualitative
		Dissolution by UV		50.0 to 150 % of the stated amount of Cefixime
		Water		1% to 10%
		Assay by HPLC		50.0% to 150 % of stated amount
3.	<b>Chloramphenicol</b>	Identification A by IR	IP 2018 (Page No. 1570)	Qualitative

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	<b>capsules</b>			
4.	<b>Chloroquine phosphate injection</b>	Identification A by IR	IP 2018 (Page No.1588)	Qualitative
		pH		2.0 to 13.0
5.	<b>Chloroquine phosphate tablets</b>	Uniformity of weight	IP 2018 (Page No. 1589)	0.02 g to 2 g
		Identification A by IR		Qualitative
6.	<b>Ciprofloxacin hydrochloride tablets</b>	Uniformity of weight	IP 2018 (Page No. 1630)	0.02 g to 2 g
		Identification by HPLC		Qualitative
		Identification by TLC		Qualitative
		Dissolution by UV		50.0 to 150 % of the stated amount of Ciprofloxacin
		Assay by HPLC		50.0% to 150 % of stated amount
7.	<b>Erythromycin Stearate Tablets</b>	Identification B & C by chemical analysis	IP 2018 (Page No. 1974)	Qualitative
8.	<b>Gentamicin Sulphate Injection</b>	pH	IP 2018 (Page No. 2168)	2.0 to 13.0
		Identification by TLC		Qualitative
9.	<b>Levofloxacin tablets</b>	Uniformity of weight	IP 2018 (Page No. 2426)	0.02 g to 2 g
		Identification by HPLC		Qualitative
		Dissolution by UV		50.0 to 150 % of the stated amount of Levofloxacin
		Related substances by HPLC		Qualitative
		Assay by HPLC		50.0% to 150 % of stated amount
10.	<b>Metoclopramide hydrochloride tablets</b>	Identification by UV	IP 2018 (Page No. 2580)	Qualitative



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		Related substances by HPLC		Qualitative
		Assay by HPLC		50.0% to 150 % of stated amount
11.	<b>Ofloxacin tablets</b>	Uniformity of weight	IP 2018 (Page No. 2769)	0.02 g to 2 g
		Identification by HPLC		Qualitative
		Dissolution by UV		50.0 to 150 % of the stated amount of Ofloxacin
		Related substance by HPLC		Qualitative
		Assay by HPLC		50.0% to 150% of stated amount
12.	<b>Oxcarbazepine tablets</b>	Uniformity of weight	IP 2018 (Page No. 2815)	0.02 g to 2 g
13.	<b>Paracetamol Pediatric Syrup</b>	Identification by TLC	IP 2018 (Page No. 2857)	Qualitative
		Identification by HPLC		Qualitative
		4-Aminophenol by HPLC		Qualitative
		Assay by HPLC		50.0% to 150% of stated amount
14.	<b>Paracetamol tablets</b>	Identification A by IR	IP 2018 (Page No.2858)	Qualitative
		Uniformity of weight		0.02 g to 2 g
		Related substance by HPLC		Qualitative
		Dissolution by UV		50.0% to 150 % of the stated amount of Paracetamol
		Assay by UV		50.0% to 150 % of stated amount
15.	<b>Salbutamol syrup</b>	pH	IP 2018 (Page No. 3165)	2.0 to 13.0
		Identification A & B by chemical analysis		Qualitative
		Assay by UV		50.0% to 150 % of the

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				stated amount
II.	<b>FOOD &amp; AGRICULTURAL PRODUCTS</b>			
A.	<b>Herbs, Spices and Condiments</b>			
1.	<b>Chilli powder, Coriander powder, Turmeric, Black Pepper</b>	Moisture content	IS 1797:2017/FSSAI Lab Manual-Spices & Condiments:2016 (Method-3.0)	0.02-20%
		Acid insoluble ash	IS 1797:2017/FSSAI Lab Manual-Spices & Condiments:2016 (Method-5.0 )	0.02-5%
		Crude fiber	IS 1797:2017/FSSAI Lab Manual-Spices & Condiments:2016 (Method-11.0)	0.1-30%
		Extraneous matter	IS 2322:2010/FSSAI Lab Manual-Spices & Condiments:2016 (Method-2.0)	0.02-15%
		Light berries	IS 1798:2010/FSSAI Lab Manual-Spices & Condiments:2016 (Method-14.2)	0.1-20%
		Fat/ Non volatile ether extract	IS 1797:2017/FSSAI Lab Manual-Spices & Condiments:2016 (Method-9.0)	0.1-30%
		Pinheads or broken berries	IS 1798:2010	0.1-10%
		Presence of Chromates	IS 3576:2010/FSSAI Lab Manual-Spices & Condiments:2016 (Method-16.6)	Qualitative (Absent/ Present)

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		Determination of Starch (Acid hydrolysis method)	IS 4706 (part II):1978 (RA 2015)/FSSAI Lab Manual-Spices & Condiments:2016 (Method-16.5)	0.5-80%
		Total Ash	IS 1797:2017/FSSAI Lab Manual-Spices & Condiments:2016 (Method-4.0)	0.1-20%
		Volatile oil	IS 1797:2017/FSSAI Lab Manual-Spices & Condiments:2016 (Method-10.0)	0.01-10%
		Insect Damaged Matter	IS 2322:2010	0.1-20%
		Foreign Edible Seeds	IS 2322:2010	0.05-20%
		Water Insoluble ash	IS 1797:2017	0.1-20%
		Cold water soluble Extract	IS 1797:2017	0.1-25 %
		Alcohol soluble extract	IS 1797:2017	0.1-20 %
		Carbohydrate	IS 1656:2007 (RA 2012)	10-85 %
		Protein	IS 7219:1973 (RA 2010)	0.1-20 %
		Energy	IS 14433:2007 (RA 2012)	100-600 Kcal/100g
2.	<b>Turmeric</b>	Curcumine	IS 10925:1984 (RA 2012)/FSSAI Lab Manual-Spices & Condiments:2016 (Method-16.4)	0.1-10%
3.	<b>Chilli</b>	Total Capsaicinoids Content	AOAC Official Method 995.03/FSSAI Lab Manual-Spices & Condiments:2016 (Method-25.0)	0.1-50%
4.	<b>Black Pepper</b>	Piperine content	AOAC 987.06/ FSSAI Lab Manual-Spices & Condiments:2016 (Method-14.3)	0.1-20%
B.	<b>Milk &amp; Dairy</b>			

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	<b>products</b>			
1.	<b>Milk</b>	Fat	IS 1479(part II):1961 (RA 2013)/ FSSAI Lab Manual-Milk & Milk products:2016 (Method-1.3.4.2)	0.1-90%
		Milk solid not fat	AOAC official method 990.21	5-12%
		Total solids	IS 1479(part II):1961 (RA 2013)/FSSAI Lab Manual-Milk & Milk products:2016 (Method-1.3.3)	0.1-99%
		Total Nitrogen	IS 1479(part II):1961 (RA 2013)/FSSAI Lab Manual-Milk & Milk products:2016 (Method-19.0)	0.1-1.5%
		Crude protein	IS 1479(part II):1961 (RA 2013)/FSSAI Lab Manual-Milk & Milk products:2016 (Method-19.1)	0.1-9%
		True protein	IS 1479(part II):1961 (RA 2013)/FSSAI Lab Manual-Milk & Milk products:2016 (Method-19.3)	0.1-9%
		Ash	IS 1479(part II):1961 (RA 2013)/FSSAI Lab Manual-Milk & Milk products:2016 (Method-10.7)	0.1-10%
		pH	IS 1479(part II):1961 (RA 2013)	6.0-8.0
		Test for Sodium chloride in milk	IS 15642 (Part 2):2006 (RA 2009) IS 1479 (Part I):2016	Qualitative (Positive/ Negative)
		Test for Added/Extraneous urea in milk	IS 1479 (Part I):2016/ FSSAI Lab Manual-Milk & Milk products:2016 (Method-1.2.4)	Qualitative (Positive/ Negative)

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		Test for presence of Hydrogen peroxide in milk	IS 1479 (Part I):2016/ FSSAI Lab Manual-Milk & Milk products:2016 (Method-1.2.18)	Qualitative (Absent/ Present)
		Test for presence of formalin in milk	IS 1479 (Part I):2016/FSSAI Lab Manual-Milk & Milk products:2016 (Method-1.2.17)	Qualitative (Absent/ Present)
		Test for boric acid and Borates in milk	IS 1479 (Part I):2016/FSSAI Lab Manual-Milk & Milk products:2016 (Method-1.2.19)	Qualitative (Absent/ Present)
		Test for Benzoic acid in milk	IS 1479 (Part I):2016	Qualitative (Absent/ Present)
		Test for neutralizer in milk	IS 1479 (Part I):2016	Qualitative (Absent/ Present)
		Test for Presence of Starch in milk	IS 1479 (Part I):2016/FSSAI Lab Manual-Milk & Milk products:2016 (Method-1.2.2)	Qualitative (Absent/ Present)
		Test for Glucose in milk	FSSAI Lab Manual-Milk & Milk products:2016 (Method-1.2.7)	Qualitative (Absent/ Present)
		Test for presence of pond water in milk	FSSAI Lab Manual-Milk & Milk products:2016 (Method-1.2.10)	Qualitative (Absent/ Present)
		Presence of sulphates in milk	FSSAI Lab Manual-Milk & Milk products:2016 (Method-1.2.6)	Qualitative (Absent/ Present)
		Test for presence of Hypochlorite in milk	FSSAI Lab Manual-Milk & Milk products:2016 (Method-1.2.12)	Qualitative (Absent/ Present)
		Test for presence of Anionic detergent in milk	FSSAI Lab Manual-Milk & Milk products:2016 (Method-1.2.14)	Qualitative (Absent/ Present)
		Casein	IS 1479(part II):1961	0.1-10%

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			(RA 2013)	
2.	<b>Curd, yoghurt and Whey products</b>	Total solid	FSSAI Lab Manual-Milk & Milk products:2016 (Method-4.4)	1-30%
		Fat	FSSAI Lab Manual-Milk & Milk products:2016 (Method-4.2)	1-8%
3.	<b>Cheese</b>	Milk Fat	FSSAI Lab Manual-Milk & Milk products:2016 (Method-6.3)	1-30%
		Moisture	FSSAI Lab Manual-Milk & Milk products:2016 (Method-6.2)	0.1-40%
4.	<b>Ice Cream, kulfi, Chocolate ice cream, And Softy ice cream and Frozen Dessert and Confections</b>	Total Solid	FSSAI Lab Manual-Milk & Milk products:2016 (Method-7.2)	1-40%
		Milk Fat	FSSAI Lab Manual-Milk & Milk products:2016 (Method-7.4)	1-20%
		Protein	FSSAI Lab Manual-Milk & Milk products:2016 (Method-7.5)	0.5-50%
5.	<b>Butter, ghee and milk fat</b>	Butyro Refractrometer Reading at 40°C	IS 3508:1966 (RA 2013)/FSSAI Lab Manual-Milk & Milk products:2016 (Method-13.3)	30-50
		Refractive index	IS 3508:1966 (RA 2013)/FSSAI Lab Manual-Milk & Milk products:2016 (Method-13.3)	1.3300-1.5000
		Free fatty acid as oleic acid	IS 3508:1966	0.01-10%

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			(RA 2013)/FSSAI Lab Manual-Milk & Milk products:2016 (Method-13.4)	
		Determination of Melting point	IS 3508:1966 (RA 2013)	10-80°c
		Determination of Moisture content	IS 3508:1966 (RA 2013)/FSSAI Lab Manual-Milk & Milk products:2016 (Method-13.2)	0.02-80%
		Determination of Peroxide value	IS 3508:1966 (RA 2013)/FSSAI Lab Manual-Milk & Milk products:2016 (Method-13.9)	0.01-20 mEq. of O <sub>2</sub> /Kg
		Reichert-Meissl value	IS 3508:1966 (RA 2013)/FSSAI Lab Manual-Milk & Milk products:2016 (Method-13.5)	5-55
		Determination of Saponification value	IS 3508:1966 (RA 2013)	1-350
		Determination of Insoluble impurities	IS 3508:1966 (RA 2013)	0.01-10%
		Unsaponifiable matter	IS 3508:1966 (RA 2013)	0.55-1.5%
		Acidity	IS 3508:1966 (RA 2013)	0.01-5%
		Iodine value	IS 3508:1966 (RA 2013)	10-150
		Polenske value	IS 3508:1966 (RA 2013)	0.1-5
		Test for Sesame oil(Baudouins test)	IS 3508:1966 (RA 2013)	Qualitative (Absent/ Present)
		Test for presence of cot-n seed oil(Halphens test)	IS:548 (Part-II)-1976 (RA 2010)	Qualitative (Absent/ Present)
		Test for presence Rice bran oil	FSSAI Lab Manual-Milk & Milk products:2016 (Method-18.0)	Qualitative (Absent/ Present)
		Test for presence linseed oil (Hexabromide test)	IS:548 (Part-II)-1976 (RA 2010)	Qualitative (Absent/ Present)
		Test for presence karanja	IS:548 (Part-II)-1976	Qualitative

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		oil	(RA 2010)	(Absent/ Present)
		Test for presence mineral oil	IS:548 (Part-II)-1976 (RA 2010)/FSSAI Lab Manual-Milk & Milk products:2016 (Method-13.7)	Qualitative (Absent/ Present)
		Test for presence castor oil	IS:548 (Part-II)-1976 (RA 2010)	Qualitative (Absent/ Present)
		Test for presence argemone oil	IS:548 (Part-II)-1976 (RA 2010)	Qualitative (Absent/ Present)
<b>6.</b>	<b>Paneer</b>	Determination of Moisture	IS 10484:1983 (RA 2014)/FSSAI Lab Manual-Milk & Milk products:2016 (Method-5.2)	0.02-80%
		Determination of Fat	IS 10484:1983 (RA 2014)/FSSAI Lab Manual-Milk & Milk products:2016 (Method-5.3)	0.1-90%
		Determination of Titrable acidity (as lactic acid)	IS 10484:1983 (RA 2014)/FSSAI manual for Milk and Milk products (2016) (Method-9.5)	0.1-5%
<b>C.</b>	<b>Infant foods</b>			
<b>1.</b>	<b>Cerelac</b>	Total milk Protein	FSSAI Lab Manual-Milk & Milk products:2016 (Method-10.6)	0.1-50%
		Total Fat	FSSAI Lab Manual-Milk & Milk products:2016 (Method-10.3)	0.1-20%
		Total Ash	FSSAI Lab Manual-Milk & Milk products:2016 (Method-10.7)	0.1-10%
		Acid insoluble ash	FSSAI Lab Manual-Milk & Milk products:2016 (Method-10.8)	0.05-10%
		Moisture	FSSAI Lab Manual-Milk &	0.1-8.0%



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			Milk products:2016 (Method-10.2)	
		Carbohydrate	FSSAI Lab Manual-Milk & Milk products:2016 (Method-10.5)	50-85 %
		Total Energy	IS 14433:2007 (RA 2012)	300-600 Kcal
		Crude Fiber	FSSAI Lab Manual-Milk & Milk products:2016 (Method-10.9)	0.1-20%
<b>D.</b>	<b>Nuts and nut products</b>			
<b>1.</b>	<b>Cashew, Almonds, Peanut</b>	Extraneous/Foreign matter	IS 15642 (Part I):2006 (RA 2011)/ FSSAI Lab Manual-Cereal and cereal products:2016 (Method-1.2)	0.1-10%
		Damaged Kernel	FSSAI Lab Manual-Cereal and cereal products:2016 (Method-1.1) / IS 2813:1995 (RA 2015)	0.1-5%
		Unopened Shells	FSSAI Lab Manual-Cereal and cereal products:2016 (Method-1.1) / IS 2813:1995 (RA 2015)	0.05-2%
		Empty Shell	FSSAI Lab Manual-Cereal and cereal products:2016 (Method-1.1) / IS 2813:1995 (RA 2015)	0.05-1%
		Moisture	IS 4684:1975 (RA 2015)	0.1-15%
		Total Ash	IS 4684:1975 (RA 2015)	0.1-10%
		Acidity of Extracted Fat	IS 4684:1975 (RA 2015)	0.1-2%
		Ash insoluble in Dilute HCL	IS 4684:1975 (RA 2015)	0.01-5%
		Protein	IS 4684:1975 (RA 2015)	0.1-60%
		Fat	IS 4684:1975 (RA 2015)	10-90%

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		Crude Fiber	IS 4684:1975 (RA 2015)	0.1-20%
<b>E.</b>	<b>Poultry &amp; Poultry Products</b>			
<b>1.</b>	<b>Egg product</b>	Moisture	IS 4723-1978 (RA 2009)	1.0-50%
		Ash	IS 4723-1978 (RA 2009) IS 14433:2006 (RA 2012)	0.1-5%
		Acid Insoluble Ash	IS 4723-1978 (RA 2009) IS 14433:2006 (RA 2012)	0.05-5%
		Nitrogen /Protein	IS 7219:1973 (RA 2010)	0.1-50%
		Lecithin and fat	IS 4723-1978 (RA 2009)	0.1-80%
<b>F.</b>	<b>Others</b>			
<b>1.</b>	<b>Edible Common Salt</b>	Chloride Content As Nacl	IS 253:2014	96-99.9%
		Matter Soluble In Water Other Than Nacl	IS 253:2014	0.1-3%
		Water Insoluble Matter	IS 253:2014	0.1-3%
		Moisture	IS 253:2014	0.1-6.0%
		Acid Insoluble Matter	IS 253:2014	0.01-2%
		Calcium	IS 253:2014	0.01-1%
		Magnesium	IS 253:2014	0.01-1%
		Sulphates	IS 253:2014	0.1-1.5%
		Alkalinity	IS 253:2014	0.01-1%
<b>2.</b>	<b>Iodized Salt</b>	Moisture	IS 7224:2006 (RA 2010)	0.1-6.0%
		Water Insoluble Matter	IS 7224:2006 (RA 2010)	0.05-3%
		Chloride Contents (as NaCl) (On Dried Basis)	IS 7224:2006 (RA 2010)	96-99.9%
		Matter Soluble In Water Other Than Nacl	IS 7224:2006 (RA 2010)	0.1-3%
		Iodine Content	IS 7224:2006 (RA 2010)	1-100 mg/kg
		Calcium	IS 7224:2006 (RA 2010)	0.01-1%
		Magnesium	IS 7224:2006 (RA 2010)	0.01-1%
		Sulphate	IS 7224:2006 (RA 2010)	0.1-1.5%
		Alkalinity	IS 7224:2006 (RA 2010)	0.01-1%
<b>G.</b>	<b>Honey and honey products</b>			

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1.	Honey	Specific gravity at 27/27°C	IS 4941:1994 (RA 2008)/FSSAI Lab Manual-Beverages, Sugar and Confectionery Product:2015 (Method-6.3)	0.80-2.0
		Moisture	IS 4941:1994 (RA 2008)/FSSAI Lab Manual-Beverages, Sugar and Confectionery Product:2015 (Method-6.2.1)	0.1-20%
		Total reducing sugar	IS 4941:1994 (RA 2008)	0.1-90%
		Sucrose	IS 4941:1994 (RA 2008)	0.1-100%
		Fructose-glucose ratio	IS 4941:1994 (RA 2008)/FSSAI Lab Manual-Beverages, Sugar and Confectionery Product:2015 (Method-6.5)	0.1-3.0
		Ash	IS 4941:1994 (RA 2008)	0.05-1%
		Acidity (Expressed as formic acid)	IS 4941:1994 (RA 2008)	0.1-1%
		Fiehe's test (Commercial invert sugar)	IS 4941:1994 (RA 2008)	Qualitative (Negative / Positive)
		Hydroxy methyl furfural (HMF)	IS 4941:1994 (RA 2008)	1.0-100%
H.	Edible oil & fats			
1.	Mustard oil, Soybean oil, Ground nut oil	Determination of Moisture content	IS 548(part I):1964 (RA 2015)/FSSAI Lab Manual-Oils and Fats:2016 (Method-3.0)	0.02-0.5%
		Determination of Acid value	IS 548(part I):1964 (RA 2015)/FSSAI Lab Manual-Oils and Fats:2016 (Method-11.0)	0.01-20
		Determination of Free fatty acid as oleic acid	IS 548(part I):1964 (RA 2015)/FSSAI Lab	0.01-10%

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			Manual-Oils and Fats:2016 (Method-11.8)	
		Determination of Saponification value	IS 548(part I):1964 (RA 2015)/FSSAI Lab Manual-Oils and Fats:2016 (Method-9.0)	1-350
		BR reading at 40°C	IS 548(part I):1964 (RA 2015)/FSSAI Lab Manual-Oils and Fats:2016 (Method-5.0)	0.1-100
		Determination of Refractive Index	IS 548(part I):1964 (RA 2015)/FSSAI Lab Manual-Oils and Fats:2016 (Method-5.0)	1.3300-1.5000
		Determination of Specific gravity	IS 548(part I):1964 (RA 2015)/FSSAI Lab Manual-Oils and Fats:2016 (Method-4.0)	0.1-10
		Peroxide Value	IS 548(part I):1964 (RA 2015)/FSSAI Lab Manual-Oils and Fats:2016 (Method-38.1)	0.1-10 mEq. /1000gm
		Iodine Value	IS 548(part I):1964 (RA 2015)/FSSAI Lab Manual-Oils and Fats:2016 (Method-12.0)	10-150
		Test for presence of Sesame oil (Boudouin test)	IS 548(part I):1964 (RA 2015)/FSSAI Lab Manual-Oils and Fats:2016 (Method-15.0)	Qualitative
		Unsaponifiable matter	IS 548(part I):1964 (RA 2015)	0.5-1.5%
		Polybromide test for mustard oil	FSSAI Lab Manual-Oils and Fats:2016 (Method-20.0)	Qualitative (Absent/ Present)
		Test for presence of	IS 548 (Part II):1976	Qualitative

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		mineral oil	(RA 2010)	(Absent/ Present)
		Test for presence of Castor oil	IS 548 (Part II):1976 (RA 2010)	Qualitative (Absent/ Present)
		Test for presence of Argemone oil	IS 548 (Part II):1976 (RA 2010)	Qualitative (Absent/ Present)
<b>I.</b>	<b>Cereals, pulses and cereal products</b>			
<b>1.</b>	<b>Wheat Atta, Maida, Whole wheat grain</b>	Determination of Moisture	IS 1155:1968 (RA 2015)FSSAI Lab Manual-Cereal and cereal products:2016 (Method-8.1)	0.02-20%
		Determination of Total Ash	IS 1155:1968 (RA 2015)/FSSAI Lab Manual-Cereal and cereal products:2016 (Method-8.2)	0.1-5%
		Determination of Acid insoluble ash	IS 1155:1968 (RA 2015)/FSSAI Lab Manual-Cereal and cereal products:2016 (Method-8.3)	0.01-5%
		Determination of Gluten	IS 1155:1968 (RA 2015)/FSSAI Lab Manual-Cereal and cereal products:2016 (Method-8.4)	0.05-10%
		Determination of Crude fiber	IS 1155:1968 (RA 2015)/FSSAI Lab Manual-Cereal and cereal products:2016 (Method-8.8)	0.1-5%
		Determination of Alcoholic acidity	IS 1155:1968 (RA 2015)/FSSAI Lab Manual-Cereal and cereal products:2016 (Method-8.5)	0.01-10%
		Argemone, Masicana and	IS 15642 (Part I):2006	Qualitative

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		Kesari, Rodent Hair	(RA 2011)	(Absent/ Present)
		Foreign Matter	IS 4333 (Part I):1996 (RA 2012) IS 2813:1995 (RA 2015)	0.1-1%
		Other Edible Grains	IS 4333 (Part I):1996 (RA 2012) IS 2813:1995 (RA 2015)	0.05-10%
		Damaged Grains	IS 4333 (Part I):1996 (RA 2012) IS 2813:1995 (RA 2015)	0.1-5%
		Iron	AOAC official method 2015.06	250-250000 µg/kg
		Protein	IS 7219:1973 (RA 2010) IS 4684:1975 (RA 2015)	1-20%
		Fat	IS 12711:1989 (RA 2010)	1-5%
		Carbohydrate	IS 1656:2007 (RA 2012)	10-90%
		Energy, Kcal	IS 14433:2007 (RA 2012)	40-600 Kcal
<b>J.</b>	<b>Fruit &amp; fruit products</b>			
<b>1.</b>	<b>Mango fruity, Fruits, juices</b>	Determination of Acidity (as citric acid)	IS 13844:2003 (2008)/FSSAI Lab Manual-Fruits & vegetable products:2016 (Method-2.4)	0.01-20%
		Determination of soluble solids content	IS 13815:2009/FSSAI Lab Manual-Fruits & vegetable products:2016 (Method-1.6)	0.01-90%
		pH	FSSAI Lab Manual-Fruits & vegetable products:2016 (Method-2.3)	3.0-9.0
<b>K.</b>	<b>Coffee &amp; Cocoa Products</b>			
<b>1.</b>	<b>Coffee &amp; Cocoa Products</b>	Determination of Moisture	IS 3077:1992 (RA 2011)/FSSAI Lab Manual 4-Beverages, Sugar and	0.02-10%

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			Confectionery Product:2015 (Method-1.2)	
		Determination of Total Ash	IS 3077:1992 (RA 2011)/FSSAI Lab Manual 4-Beverages, Sugar and Confectionery Product:2015 (Method-1.3)	0.1-10%
		Determination of Water soluble Ash of Total ash	IS 3077:1992 (RA 2011)/FSSAI Lab Manual 4-Beverages, Sugar and Confectionery Product:2015 (Method-1.4)	0.01-90%
		Determination of Acid Insoluble ash	IS 3077:1992 (RA 2011)/FSSAI Lab Manual 4-Beverages, Sugar and Confectionery Product:2015 (Method-1.5)	0.01-10%
		Determination of Alkalinity of soluble ash	IS 3077:1992 (RA 2011)/FSSAI Lab Manual 4-Beverages, Sugar and Confectionery Product:2015 (Method-1.6)	0.1-70%
		Water soluble matter	IS 3077:1992 (RA 2011)/FSSAI Lab Manual 4-Beverages, Sugar and Confectionery Product:2015 (Method-1.7)	0.1-80%
<b>L.</b>	<b>Tea</b>			
<b>1.</b>	<b>Tea</b>	Determination of Water soluble Ash of Total ash	IS 13855:1993 (RA 2009)/FSSAI Lab Manual 4-Beverages, Sugar and Confectionery Product:2015 (Method-1.4)	1.0-90%
		Determination of Acid Insoluble ash	IS 13857:1993 (RA 2009)/FSSAI Lab	0.01-10%

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			Manual 4-Beverages, Sugar and Confectionery Product:2015 (Method-1.5)	
		Determination of Alkalinity of water soluble ash	IS 13856:1993 (RA 2009)/FSSAI Lab Manual 4-Beverages, Sugar and Confectionery Product:2015 (Method-1.6)	0.1-70%
		Determination of Crude fiber content	IS 10226 (part I ):1982 (RA 2015)/FSSAI Lab Manual 4-Beverages, Sugar and Confectionery Product:2015 (Method-5.8)	0.1-15%
		Determination of Total Ash	IS 13854:1994 (RA 2009)/FSSAI Lab Manual 4-Beverages, Sugar and Confectionery Product:2015 (Method-1.3 )	0.1-10%
		Determination of Water extract	IS 13862:1999 (RA 2009)/FSSAI Lab Manual 4-Beverages, Sugar and Confectionery Product:2015 (Method-1.7)	0.1-50%
		Moisture	IS 13853:1994 (RA 2009)	0.1-15%
		Protein	IS 7219:1973 (RA 2010)	0.1-30%
		Fat	IS 4684:1975 (RA 2015)	0.1-10%
		Carbohydrate	IS 1656:2007 (RA 2012)	10-90%
		Energy	IS 14433:2007 (RA 2012)	40-500 Kcal
<b>M.</b>	<b>Sugar &amp; Sugar Products</b>			
<b>1.</b>	<b>Refined sugar</b>	Determination of Sucrose	IS 15279:2003 (RA 2013)/FSSAI Lab Manual 4-Beverages, Sugar and Confectionery	0.01-99.9%



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			Product:2015 (Method-7.4)	
		Determination of Loss on drying	IS 15279:2003 (RA 2013)/FSSAI Lab Manual 4-Beverages, Sugar and Confectionery Product:2015 (Method-7.2)	0.02-1.0%
2.	<b>Gur (Jaggery)</b>	Determination of Total Ash	IS 13952:1994 (RA 2009)/FSSAI Lab Manual 4-Beverages, Sugar and Confectionery Product:2015 (Method-9.3)	0.1-20%
		Determination of Acid insoluble ash	IS 13952:1994 (RA 2009)/FSSAI Lab Manual 4-Beverages, Sugar and Confectionery Product:2015 (Method-9.4)	0.02-10%
<b>N.</b>	<b>Bakery &amp; confectionery products</b>			
1.	<b>Chocolate &amp; Candies</b>	Determination of Sulphated ash	IS 6287:1985 (RA 2010)/FSSAI Lab Manual 4-Beverages, Sugar and Confectionery Product:2015,(Method-A.3)	0.01-10%
		Determination of Acid insoluble ash	IS 6287:1985 (RA 2010)/FSSAI Lab Manual 4-Beverages, Sugar and Confectionery Product:2015,(Method-A.5)	0.01-10%
		Determination of Total protein	IS 6287:1985 (RA 2010)/FSSAI Lab Manual 4-Beverages, Sugar and Confectionery Product:2015,(Method-A.7)	0.1-95%
		Determination of Fat	IS 6287:1985	0.1-10%

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			(RA 2010)/FSSAI Lab Manual 4-Beverages, Sugar and Confectionery Product:2015,(Method-A.8)	
		Determination of Reducing sugar	IS 6287:1985 (RA 2010)/FSSAI Lab Manual 4-Beverages, Sugar and Confectionery Product:2015, (Method-A.9)	0.01-95%
2.	Namkeen	Determination of Moisture	IS 15271:2003 (RA 2013) IS 12711:1989 (RA 2010)	0.02-10%
		Determination of Acid insoluble ash	IS 15271:2003 (RA 2013) IS 12711:1989 (RA 2010)	0.01-5%
		Determination of Fat	IS 15271:2003 (RA 2013) IS 12711:1989 (RA 2010)	0.1-90%
		Determination of Acidity of Extracted Fat (as oleic acid)	IS 15271:2003 (RA 2013) IS 12711:1989 (RA 2010)	0.01-25%
		Determination of Peroxide value	IS 15271:2003 (RA 2013) IS 12711:1989 (RA 2010)	0.01-20 mEq./Kg fat
3.	Biscuit	Determination of Moisture	IS 1011:2002 (RA 2009)/FSSAI Lab Manual-Cereal and cereal products:2016 (Method-14.3)	0.02-10%
		Determination of Acid insoluble ash	IS 1011:2002 (RA 2009)/FSSAI Lab Manual-Cereal and cereal products:2016 (Method-14.4)	0.02-10%
		Determination of Acidity of Extracted Fat (as oleic acid)	IS 1011:2002 (RA 2009)/FSSAI Lab Manual-Cereal and cereal products:2016 (Method-14.5)	0.01-25%
O.	Animal Food & Feeds			

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1.	<b>Cattle Feed</b>	Moisture	IS 7874 (Part-1)-1975 (RA 2014)	0.1-15%
		Acid insoluble ash	IS 7874 (Part-1)-1975 (RA 2014)	0.05-5%
		Total Ash	IS 7874 (Part-1)-1975 (RA 2014)	0.1-15%
		Crude Fat	IS 7874 (Part-1)-1975 (RA 2014)	0.1-10%
		Crude Fibre	IS 7874 (Part-1)-1975 (RA 2014)	0.1-15%
		Protein	IS 7874 (Part-1)-1975 (RA 2014)	0.1-60%
		Carbohydrate	IS 1656:2007 (RA 2012)	10-80%
		Energy	IS 14433:2007 (RA 2012)	350-500 Kcal
III.	<b>WATER</b>			
1.	<b>Drinking water, Packaged drinking water/ Surface water/ Ground water/ Processed water</b>	Odour	IS 3025 (part 5):1983 (RA 2017)/FSSAI Lab Manual-Water Analysis:2016 (Method-I-2)	Qualitative (Absent/ Present)
		pH	IS 3025 (part 11):1983 (RA 2017) /FSSAI Lab Manual-Water Analysis:2016 (Method-I-3)	1-14
		Total dissolved solids	IS 3025 (part 16):1984 (RA 2017) /FSSAI Lab Manual-Water Analysis:2016 (Method-I-6)	1-5000mg/l
		Turbidity	IS 3025 (part 10):1984 (RA 2017) / FSSAI Lab Manual-Water Analysis:2016 (Method-I-5)	0.1-100NTU
		Taste	IS 3025 (Part 8):1984	Qualitative

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			(RA 2017) /FSSAI Lab Manual-Water Analysis:2016 (Method-I-4)	(Absent/ Present)
		Total Suspended Solids	IS 3025 (Part 17):1984 (RA 2017)	1.0-5000 mg/l
		Electrical Conductance	IS 3025 (Part 14):1984 (RA 2013) APHA 2510 B-23 <sup>rd</sup> Edition 2017	0.1-10000 $\mu\text{s cm}^{-1}$
		Total Hardness (CaCO <sub>3</sub> )	IS 3025 (Part 21):2009/FSSAI Lab Manual-Water Analysis:2016 (Method-II-8)	1.0-5000 mg/l
		Total Solids	IS 3025 (Part 15):1984 (RA 2014)	1.0-5000 mg/l
		Sodium	FSSAI Lab Manual-Water Analysis:2016 (Method-II-16) / APHA 3500-23 <sup>rd</sup> Edition 2017	0.05-100 mg/l
		Potassium	APHA 3500-23 <sup>rd</sup> Edition 2017	0.05-100 mg/l
		Calcium	IS 3025 (Part 40):1991 (RA 2014)/FSSAI Lab Manual-Water Analysis:2016 (Method-II-14)	1.0-200 mg/l
		Magnesium	IS 3025 (Part 46):1994 (RA 2014)/FSSAI Lab Manual-Water Analysis:2016 (Method-II-6)	1.0-200 mg/l
		Alkalinity (As CaCO <sub>3</sub> )	IS 3025 (Part 23):1986 (RA 2014)/FSSAI Lab Manual-Water Analysis:2016 (Method-II-9)	1.0-1000 mg/l
2.	Neutraceuticals and functional foods	Vitamin C	IS 5838:1970 (RA 2010)	0.5-200mg/100g

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<b>IV.</b>	<b>RESIDUE IN FOOD PRODUCTS</b>			
<b>A.</b>	<b>Herbs, Spices and Condiments</b>			
<b>1.</b>	<b>Chilli powder, Coriander powder, Turmeric, Black Pepper</b>	Chromium	FSSAI Lab Manual-Metals:2016 (ICP-MS) (Method-6.0)	250-250000 µg/kg
		Manganese		250-250000 µg/kg
		Nickel		250-250000 µg/kg
		Copper		250-250000 µg/kg
		Zinc		500-250000 µg/kg
		Selenium		250-250000 µg/kg
		Molybdenum		250-250000 µg/kg
		Lead	AOAC official method 2013.06	1-10000 µg/kg
		Cadmium		1-10000 µg/kg
		Arsenic		1-10000 µg/kg
	Mercury		1-10000 µg/kg	
<b>B.</b>	<b>Milk &amp; Dairy products</b>			
<b>1.</b>	<b>Milk</b>	Lead	AOAC official method 2013.06	1-10000 µg/kg
		Cadmium		1-10000 µg/kg
		Arsenic		1-10000 µg/kg
		Mercury		1-10000 µg/kg
<b>2.</b>		<b>Curd, yoghurt and Whey products</b>	Arsenic	AOAC official method 2013.06
	Cadmium			1-10000 µg/kg
	Lead			1-10000 µg/kg
	Mercury			1-10000 µg/kg
<b>3.</b>	<b>Cheese</b>	Arsenic	AOAC official method 2013.06	1-10000 µg/kg

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		Cadmium		1-10000 µg/kg
		Lead		1-10000 µg/kg
		Mercury		1-10000 µg/kg
4.	Butter, ghee and milk fat	Lead	AOAC official method 2013.06	1-10000 µg/kg
		Cadmium		1-10000 µg/kg
		Arsenic		1-10000 µg/kg
		Mercury		1-10000 µg/kg
5.	Paneer	Lead	AOAC official method 2013.06	1-10000 µg/kg
		Cadmium		1-10000 µg/kg
		Arsenic		1-10000 µg/kg
		Mercury		1-10000 µg/kg
6.	Infant foods	Arsenic	AOAC official method 2013.06	1-10000 µg/kg
		Cadmium		1-10000 µg/kg
		Lead		1-10000 µg/kg
		Mercury		1-10000 µg/kg
C.	Nuts and nut products			
1.	Cashew, Almonds, Peanut	Arsenic	AOAC official method 2013.06	1-10000 µg/kg
		Cadmium		1-10000 µg/kg
		Lead		1-10000 µg/kg
		Mercury		1-10000 µg/kg
		Chromium	FSSAI Lab Manual- Metals:2016 (ICP-MS) (Method-6.0)	250-250000 µg/kg
		Manganese		250-250000 µg/kg
		Nickel		250-250000 µg/kg

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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
		Copper		250-250000 µg/kg
		Zinc		500-250000 µg/kg
		Selenium		250-250000 µg/kg
		Molybdenum		250-250000 µg/kg
<b>D.</b>	<b>Poultry &amp; Poultry Products</b>			
<b>1.</b>	<b>Egg Product</b>	Arsenic	AOAC official method 2013.06	1-10000 µg/kg
		Cadmium		1-10000 µg/kg
		Lead		1-10000 µg/kg
		Mercury		1-10000 µg/kg
		Chromium	FSSAI Lab Manual- Metals:2016 (ICP-MS) (Method-6.0)	250-250000 µg/kg
		Manganese		250-250000 µg/kg
		Nickel		250-250000 µg/kg
		Copper		250-250000 µg/kg
		Zinc		500-250000 µg/kg
		Selenium		250-250000 µg/kg
		Molybdenum		250-250000 µg/kg
<b>E.</b>	<b>Others</b>			
<b>1.</b>	<b>Iodized Salt</b>	Arsenic	AOAC official method 2013.06	1-10000 µg/kg
		Cadmium		1-10000 µg/kg
		Lead		1-10000 µg/kg
		Mercury		1-10000 µg/kg
<b>F.</b>	<b>Honey and honey products</b>			
<b>1.</b>	<b>Honey</b>	Arsenic	AOAC official method 2013.06	1-10000 µg/kg
		Cadmium		1-10000 µg/kg
		Lead		1-10000 µg/kg
		Mercury		1-10000 µg/kg

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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
<b>G.</b>	<b>Edible oil &amp; fats</b>			
<b>1.</b>	<b>Mustard oil, Soybean oil, Ground nut oil</b>	Chromium	FSSAI Lab Manual- Metals:2016 (ICP-MS) (Method-6.0)	250-250000 µg/kg
		Manganese		250-250000 µg/kg
		Nickel		250-250000 µg/kg
		Copper		250-250000 µg/kg
		Selenium		250-250000 µg/kg
		Molybdenum		250-250000 µg/kg
		Lead	AOAC official method 2013.06	1-10000 µg/kg
		Cadmium		1-10000 µg/kg
		Arsenic		1-10000 µg/kg
		Mercury		1-10000 µg/kg
<b>H.</b>	<b>Cereals, pulses and cereal products</b>			
<b>1.</b>	<b>Wheat Atta, Maida, Whole wheat grain</b>	Chromium	FSSAI Lab Manual- Metals:2016 (ICP-MS) (Method-6.0)	250-250000 µg/kg
		Manganese		250-250000 µg/kg
		Nickel		250-250000 µg/kg
		Copper		250-250000 µg/kg
		Selenium		500-250000 µg/kg
		Molybdenum		250-250000 µg/kg
		Chromium		250-250000 µg/kg
		Lead	AOAC official method 2013.06	1-10000 µg/kg
		Cadmium		1-10000 µg/kg
		Arsenic		1-10000 µg/kg
		Mercury		1-10000 µg/kg



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<b>I.</b>	<b>Fruit &amp; fruit products</b>			
<b>1.</b>	<b>Mango fruity, Fruits, juices</b>	Lead	AOAC official method 2013.06	1-10000 µg/kg
		Cadmium		1-10000 µg/kg
		Arsenic		1-10000 µg/kg
		Mercury		1-10000 µg/kg
<b>J.</b>	<b>Coffee &amp; Cocoa Products</b>			
<b>1.</b>	<b>Coffee &amp; Cocoa Powder</b>	Lead	AOAC official method 2013.06	1-10000 µg/kg
		Cadmium		1-10000 µg/kg
		Arsenic		1-10000 µg/kg
		Mercury		1-10000 µg/kg
<b>K.</b>	<b>Tea</b>			
<b>1.</b>	<b>Tea</b>	Chromium	FSSAI Lab Manual- Metals:2016 (ICP-MS) (Method-6.0)	250-250000 µg/kg
		Manganese		250-250000 µg/kg
		Nickel		250-250000 µg/kg
		Copper		250-250000 µg/kg
		Selenium		500-250000 µg/kg
		Molybdenum		250-250000 µg/kg
		Lead	AOAC official method 2013.06	1-10000 µg/kg
		Cadmium		1-10000 µg/kg
		Arsenic		1-10000 µg/kg
		Mercury		1-10000 µg/kg
<b>L.</b>	<b>Sugar &amp; Sugar Products</b>			
<b>1.</b>	<b>Refined sugar</b>	Lead	AOAC official method 2013.06	1-10000 µg/kg
		Cadmium		1-10000 µg/kg

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		Arsenic		1-10000 µg/kg
		Mercury		1-10000 µg/kg
2.	Gur (Jaggery)	Lead	AOAC official method 2013.06	1-10000 µg/kg
		Cadmium		1-10000 µg/kg
		Arsenic		1-10000 µg/kg
		Mercury		1-10000 µg/kg
M.	Bakery & confectionery products			
1.	Chocolate & Candies	Lead	AOAC official method 2013.06	1-10000 µg/kg
		Cadmium		1-10000 µg/kg
		Arsenic		1-10000 µg/kg
		Mercury		1-10000 µg/kg
2.	Namkeen	Lead	AOAC official method 2013.06	1-10000 µg/kg
		Cadmium		1-10000 µg/kg
		Arsenic		1-10000 µg/kg
		Mercury		1-10000 µg/kg
3.	Biscuit	Lead	AOAC official method 2013.06	1-10000 µg/kg
		Cadmium		1-10000 µg/kg
		Arsenic		1-10000 µg/kg
		Mercury		1-10000 µg/kg
N.	Animal Feed & Pet Food			
1.	Cattle Feed	Arsenic	AOAC official method 2013.06	1-10000 µg/kg
		Cadmium		1-10000 µg/kg
		Lead		1-10000 µg/kg
		Mercury		1-10000 µg/kg
		Chromium	FSSAI Lab Manual-Metals:2016	250-250000 µg/kg

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			(ICP-MS) (Method-6.0)	
		Manganese		250-250000 µg/kg
		Nickel		250-250000 µg/kg
		Copper		250-250000 µg/kg
		Zinc		500-250000 µg/kg
		Selenium		250-250000 µg/kg
		Molybdenum		250-250000 µg/kg
<b>V.</b>	<b>RESIDUE IN WATER</b>			
<b>A.</b>	<b>Trace metal elements</b>			
<b>1.</b>	<b>Drinking water, Packaged drinking water/ Surface water/ Ground water/ Processed water</b>	Barium	FSSAI Lab Manual-Water Analysis:2016 (ICP-MS) (Method-III-B) / APHA 3125 B-23 <sup>rd</sup> Edition 2017	1-10000 µg/L
		Boron		1-10000 µg/L
		Copper		1-10000 µg/L
		Manganese		1-10000 µg/L
		Selenium		1-10000 µg/L
		Zinc		5-10000 µg/L
		Cadmium		1-10000 µg/L
		Lead		1-10000 µg/L
		Mercury		1-10000 µg/L
		Molybdenum		1-10000 µg/L
		Nickel		1-10000 µg/L
		Arsenic		1-10000 µg/L
		Chromium		1-10000 µg/L
		Chloride		0.5-500 mg/L
		Fluoride		0.5-500 mg/L
		Nitrate		0.5-50 mg/L
	Sulphate	1.0-500 mg/L		
	Bromide	1.0-10 mg/L		
	Phosphate	1.0-500 mg/L		
	Nitrite	0.5-10 mg/L		