

Laboratory Auriga Research Private Limited, No.136, 6<sup>th</sup> Cross, 2<sup>nd</sup> Stage,  
Yeshwanthpur Industrial Suburb, Bangalore, Karnataka

Accreditation Standard ISO/IEC 17025: 2017

Certificate Number TC-5496

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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.	ANIMAL FOOD & FEED			
1.	<b>Pet foods</b>			
(i)	Animal feed	Detection of Escherichia coli	IS 5887 (Part I):1976; RA 2018	Qualitative : Present/Absent/g
		Detection of Salmonella	IS 5887 (Part-III):1999; RA 2018	Qualitative : Present/Absent/25g
		Detection of Salmonella	ISO 6579-1:2017	Qualitative : Present/Absent/25g
		Detection of Shigella	IS 5887 (Part-VII):1999 RA 2018	Qualitative : Present/Absent/25g
		Detection of Staphylococcus aureus	IS:5887 (Part-II):1976; RA 2018	Qualitative : Present/Absent/25g
		Detection of Vibrio cholerae	IS 5887 (Part V): 1976 RA 2018	Qualitative : Present/Absent/25g
		Detection of Vibrio parahaemolyticus	IS 5887 (Part V): 1976 RA 2018	Qualitative : Present/Absent/25g
		Enumeration of Coliform	IS 5401 (Part 1):2012; RA 2018	Others: =/>10 cfu/g
		Enumeration of Enterobacteriaceae	IS/ISO 7402:1993; RA 2018	Others : =/>10 cfu/g
		Enumeration of Escherichia coli	IS 5887 (Part I):1976; RA 2018	Others : =/>10 cfu/g
		Enumeration of Fecal Streptococci	IS:5887 (Part-II):1976; RA 2018	Others : =/>10 cfu/g
		Enumeration of Staphylococcus aureus	IS 5887 (Part-VIII/Section-1): 2002; RA 2018	Others : =/>10 cfu/g
		Enumeration of Staphylococcus aureus	IS:5887 (Part-II):1976; RA 2018	Others : =/>10 cfu/g
		Enumeration of Staphylococcus aureus	ISO 6888-1:1999	Others : =/>10 cfu/g

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		Total plate count	IS 5402:2012; RA 2018	Others :=>10 cfu/g
		Total plate count	ISO 4833:2003; RA 2018	Others :=>10 cfu/g
		Yeast and mould count	IS 5403:1999; RA 2018	Others :=>10 cfu/g
<b>II.</b>	<b>AYUSH PRODUCTS</b>			
<b>1.</b>	<b>Ayurvedic drugs</b>	Escherichia coli	API (Part II), Volume-II, Appendix: 2.4, Part I96:2011	Qualitative : Present/Absent/g/mL
		Pseudomonas aeruginosa	API (Part II) Volume-II, Appendix: 2.4, Part I97:2011	Qualitative : Present/Absent/g/mL
		Salmonella	API (Part II), Volume-II, Appendix: 2.4, Part 196:2011	Qualitative : Present/Absent/g/mL
		Staphylococcus aureus	API (Part II), Volume-II, Appendix: 2.4, Part I98:2011	Qualitative : Present/Absent/g/mL
		Total Aerobic Microbial count	API (Part II), Volume-II, Appendix: 2.4, Part I94:2011	Others :=>10 cfu/g; => 1 cfu/mL
		Total yeast & mould count	API (Part II), Volume-II, Appendix: 2.4, Part I94:2011	Others :=>10 cfu/g; =>1 cfu/mL
<b>2.</b>	<b>Herbal Formulations</b>	Escherichia coli	API (Part II), Volume-II, Appendix: 2.4, Part I96:2011	Qualitative : Present/Absent/g/mL
		Pseudomonas aeruginosa	API (Part II) Volume-II, Appendix: 2.4, Part I97:2011	Qualitative : Present/Absent/g/mL
		Salmonella	API (Part II), Volume-II, Appendix: 2.4, Part I96:2011	Qualitative : Present/Absent/g/mL

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		Staphylococcus aureus	API (Part II), Volume-II, Appendix: 2.4, Part I98: 2011	Qualitative : Present/Absent/g/mL
		Total Aerobic Microbial count	API (Part II), Volume-II, Appendix: 2.4, Part I94:2011	Others : $\geq 10$ cfu/g; $\geq 1$ cfu/mL
		Total yeast & mould count	API (Part II), Volume-II, Appendix: 2.4, Part I94:2011	Others : $\geq 10$ cfu/g; $\geq 1$ cfu/mL
III.	<b>WATER</b>			
1.	<b>Distilled / De-Mineralized Water</b>			
(i)	Distilled / De-mineralized Water	Escherichia coli	IP, Volume I, Appendix 2.2.9, P.no. 38: 2018	Qualitative : Present/Absent/100mL
		Pseudomonas aeruginosa	IP, Volume I, Appendix 2.2.9, P.no. 38: 2018	Qualitative : Present/Absent/100mL
		Salmonella	IP, Volume I, Appendix 2.2.9, P.no. 38: 2018	Qualitative : Present/Absent/100mL
		Staphylococcus aureus	IP, Volume I, Appendix 2.2.9, P.no. 38: 2018	Qualitative : Present/Absent/100mL
		Total viable aerobic count	IP, Volume I, Appendix 2.2.9, P.no. 38: 2018	Others : Minimum 1cfu/mL
2.	<b>Drinking Water</b>			
(i)	Drinking Water (IS10500:2012)	Coliforms	IS 15185:2016	Qualitative : Present/Absent
		Coliforms	IS 15185:2016	Qualitative : Present/Absent /100mL
		Escherichia coli	IS 15185:2016	Qualitative : Present/Absent/100mL

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3.	<b>Water for Processed Food Industry</b>	Slime forming bacteria	IS:1622:1981; RA 2014	Qualitative : Absent/Present
(i)	Water for Processed Food Industry (IS 4251)	Coliform count	IS:1622:1981; RA 2014	Qualitative : 1-1600 MPN/100mL
		Escherichia coli	IS:1622:1981; RA 2014	Qualitative : 1-161 MPN/100mL
<b>IV.</b>	<b>COSMETICS AND ESSENTIAL OILS</b>			
1.	<b>Cosmetics</b>			
(i)	Cosmetics and Essential Oils	Candida albicans	IS 14648: 2011	Qualitative : Present/Absent/g/mL
		Escherichia coli	IS 14648: 2011	Qualitative : Present/Absent/g/mL
		Pseudomonas aeruginosa	IS 14648: 2011	Qualitative : Present/Absent /g/mL
		Staphylococcus aureus	IS 14648: 2011	Qualitative : Present/Absent/g/mL
		Total Viable count	IS 14648: 2011	Others :>=/10 cfu/g/mL
		Total Yeast and Mould Count	IS 14648: 2011	Others :>=/10 cfu/g/mL
<b>V.</b>	<b>DRUGS AND PHARMACEUTICALS</b>			
1.	<b>Microbial Limit Test</b>	Bile tolerant gram negative bacteria	BP, Appendix XVIB Page No. V-A 523: 2019	Qualitative : Present/Absent/g/mL
		Bile tolerant gram negative bacteria	IP, Volume I, Appendix 2.2.9, Page No.38: 2018	Qualitative : Present/Absent/g/mL
		Bile tolerant gram negative bacteria	USP <61> <62> : 2018	Qualitative : Present/Absent/g/mL)
		Candida albicans	BP, Appendix XVIB Page No. V-A 523: 2019	Qualitative : Present/Absent/g/mL
		Candida albicans	IP, Volume I, Appendix 2.2.9, Page No.38: 2018	Qualitative : Present/Absent/g/mL

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		Candida albicans	USP <61> <62> : 2018	Qualitative : Present/Absent/g/mL
		Clostridia	BP, Appendix XVIB Page No. V-A 523: 2019	Qualitative : Present/Absent/g/mL
		Clostridia	IP, Volume I, Appendix 2.2.9, Page No.38: 2018	Qualitative : Present/Absent/g/mL
		Clostridia	USP <61> <62> : 2018	Qualitative : Present/Absent/g/mL
		Escherichia coli	BP, Appendix XVIB Page No. V-A 523: 2019	Qualitative : Present/Absent/g/mL
		Escherichia coli	IP, Volume I, Appendix 2.2.9, Page No.38: 2018	Qualitative : Present/Absent/g/mL
		Escherichia coli	USP <61> <62> : 2018	Qualitative : Present/Absent/g/mL
		Pseudomonas aeruginosa	BP, Appendix XVIB Page No. V-A 523: 2019	Qualitative : Present/Absent/g/mL
		Pseudomonas aeruginosa	IP, Volume I, Appendix 2.2.9, Page No.38: 2018	Qualitative : Present/Absent/g/mL
		Pseudomonas aeruginosa	USP <61> <62> : 2018	Qualitative : Present/Absent/g/mL
		Salmonella	BP, Appendix XVIB Page No. V-A 523: 2019	Qualitative : Present/Absent /g/mL & 10g/10mL
		Salmonella	IP, Volume I, Appendix 2.2.9, Page No.38: 2018	Qualitative : Present/Absent /g/mL & 10g/10mL
		Salmonella	USP <61> <62> : 2018	Qualitative : Present/Absent /g/mL & 10g/10mL)
		Shigella	BP, Appendix XVIB Page No. V-A 523: 2019	Qualitative : Present/Absent /g/mL & 10g/10mL
		Shigella	IP, Volume I, Appendix 2.2.9, Page No.38: 2018	Qualitative : Present/Absent /g/mL & 10g/10mL

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		Shigella	USP <61> <62> : 2018	Qualitative : Present/Absent /g/mL & 10g/10mL
		Staphylococcus aureus	BP, Appendix XVIB Page No. V-A 523: 2019	Qualitative : Present/Absent/g/mL
		Staphylococcus aureus	IP, Volume I, Appendix 2.2.9, Page No.38: 2018	Qualitative : Present/Absent/g/mL
		Staphylococcus aureus	USP <61> <62> : 2018	Qualitative : Present/Absent/g/mL
		Total Viable Aerobic count	BP, Appendix XVIB Page No. V-A 523: 2019	Others :=>10 cfu/mL/g
		Total Viable Aerobic count	IP, Volume I, Appendix 2.2.9, Page No.38: 2018	Others :=>10 cfu/mL/g
		Total Viable Aerobic count	USP <61> <62> : 2018	Others :=>10 cfu/mL/g
		Total yeast and mold count	BP, Appendix XVIB Page No. V-A 523: 2019	Others :=>10cfu/mL/g
		Total yeast and mold count	IP, Volume I, Appendix 2.2.9, Page No.38: 2018	Others :=>10 cfu/mL/g
		Total yeast and mold count	USP <61> <62> : 2018	Others :=>10 cfu/mL/g
2.	<b>Sterility tests</b>	Sterility	BP, Appendix XVIA page No. V-A519:2019	Qualitative: Complies / Does not comply
		Sterility	IP, Volume I, Appendix 2.2.11, Page No.59:2018	Qualitative: Complies / Does not comply
		Sterility	USP <71> : 2018	Qualitative : Complies / Does not comply
VI.	<b>FOOD &amp; AGRICULTURAL PRODUCTS</b>			
1.	<b>Bakery &amp; Confectionery Products</b>	Detection of Salmonella	IS 5887 (Part-III):1999; RA 2018	Qualitative : Present/Absent /25g/25mL

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		Detection of Salmonella	ISO 6579-1:2017	Qualitative : Present/Absent /25g/25mL
		Detection of Escherichia coli	IS 5887 (Part I):1976; RA 2018	Qualitative : Present/Absent/g/mL
		Detection of Shigella	IS 5887 (Part-VII):1999; RA 2018	Qualitative : Present/Absent /25g/25mL
		Detection of Staphylococcus aureus	IS:5887 (Part-II):1976; RA 2018	Qualitative : Present/Absent /25g/25mL
		Detection of Vibrio cholerae	IS 5887 (Part V):1976 RA 2018	Qualitative : Present/Absent /25g/25mL
		Detection of Vibrio parahaemolyticus	IS 5887 (Part V):1976 RA 2018	Qualitative : Present/Absent /25g/25mL
<b>2.</b>	<b>Beverages (Alcoholic / Non-Alcoholic)</b>			
(i)	Beverages (Alcoholic drink)	Coliform count	IS 3752:2005; RA 2015	Qualitative : Present/Absent/25mL
		Detection of Escherichia coli	IS 5887 (Part I):1976; RA 2018	Qualitative : Present/Absent/mL
		Detection of Salmonella	IS 5887 (Part-III):1999; RA 2018	Qualitative : Present/Absent/25mL
(ii)	Beverages (Non-Alcoholic)	Detection of Salmonella	ISO 6579-1:2017	Qualitative : Present/Absent/25mL
		Detection of Shigella	IS 5887 (Part-VII):1999; RA 2018	Qualitative : Present/Absent/25mL
		Detection of Staphylococcus aureus	IS:5887 (Part-II):1976; RA 2018	Qualitative : Present/Absent/25mL
		Detection of Vibrio cholerae	IS 5887 (Part V): 1976 RA 2018	Qualitative : Present/Absent/25mL
		Detection of Vibrio parahaemolyticus	IS 5887 (Part V): 1976 RA 2018	Qualitative : Present/Absent/25mL

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		Enumeration of Coliforms	IS 5401 (Part 1):2012; RA 2018	Others :=>1 cfu/mL
		Enumeration of Coliforms (MPN)	IS: 5401 (Part 2):2012; RA 2018	Qualitative : 0.3 to >110 MPN/mL
		Enumeration of Coliforms (MPN)	ISO 4831: 2006	Qualitative : 0.3 to >110 MPN/mL
		Enumeration of Enterobacteriaceae	IS/ISO 7402: 1993; RA 2018	Others :=>1 cfu/mL
		Enumeration of Escherichia coli	IS 5887 (Part I):1976; RA 2018	Others :=>1 cfu/mL
		Enumeration of Staphylococcus aureus	IS:5887 (Part-II):1976; RA 2018	Others :=>1 cfu/mL
		Enumeration of Staphylococcus aureus	IS 5887 (Part-VIII/Section - 1): 2002; RA 2018	Others :=>1 cfu/mL
		Enumeration of Staphylococcus aureus	ISO 6888-1:1999	Others :=>1 cfu/mL
		Total plate count	IS 5402:2012; RA 2018	Others :=>1 cfu/mL
		Total plate count	ISO 4833:2003; RA 2018	Others :=>1 cfu/mL
		Yeast and mould count	IS 5403:1999; RA 2018	Others :=>1 cfu/mL
3.	<b>Canned &amp; Processed Foods</b>	Detection of Escherichia coli	IS 5887 (Part I):1976; RA 2018	Qualitative : Present/Absent/g/mL
		Detection of Salmonella	IS 5887 (Part-III):1999; RA 2018	Qualitative : Present/Absent /25g/25mL
		Detection of Salmonella	ISO 6579-1:2017	Qualitative : Present/Absent /25g/25mL
		Detection of Shigella	IS 5887 (Part-VII):1999; RA 2018	Qualitative : Present/Absent /25g/25mL



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		Detection of Staphylococcus aureus	IS:5887 (Part-II):1976; RA 2018	Qualitative : Present/Absent /25g/25mL
		Detection of Vibrio cholerae	IS 5887 (Part V): 1976 RA 2018	Qualitative : Present/Absent /25g/25mL
		Total plate count	IS 5402: 2012; RA 2018	Others :=>10 cfu/g; =>1 cfu/mL
		Total plate count	ISO 4833:2003; RA 2018	Others :=>10 cfu/g; =>1 cfu/mL
4.	<b>Cereals, Pulses &amp; Cereal Products</b>	Detection of Escherichia coli	IS 5887 (Part I):1976; RA 2018	Qualitative : Present/Absent/g
		Detection of Salmonella	IS 5887 (Part-III):1999; RA 2018	Qualitative : Present/Absent /25g
		Detection of Salmonella	ISO 6579-1:2017	Qualitative : Present/Absent /25g
		Detection of Shigella	IS 5887 (Part-VII):1999; RA 2018	Qualitative : Present/Absent/25g
		Detection of Staphylococcus aureus	IS:5887 (Part-II):1976; RA 2018	Qualitative : Present/Absent/25g
		Detection of Vibrio cholerae	IS 5887 (Part V): 1976 RA 2018	Qualitative : Present/Absent/25g
		Detection of Vibrio parahaemolyticus	IS 5887 (Part V): 1976 RA 2018	Qualitative : Present/Absent/25g
		Enumeration of Coliforms	IS 5401 (Part 1):2012; RA 2018	Others :=>10 cfu/g
		Enumeration of Enterobacteriaceae	IS/ISO 7402:1993; RA 2018	Others :=>10 cfu/g
		Enumeration of Escherichia coli	IS 5887 (Part I):1976; RA 2018	Others :=>10 cfu/g
		Enumeration of Faecal Streptococci	IS:5887 (Part-II):1976; RA 2018	Others :=>10 cfu/g
		Enumeration of Staphylococcus aureus	IS 5887 (Part-VIII / Section -1): 2002; RA 2018	Others :=>10 cfu/g

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		Enumeration of Staphylococcus aureus	IS:5887 (Part-II):1976; RA 2018	Others :=>10 cfu/g
		Enumeration of Staphylococcus aureus	ISO 6888-1:1999	Others :=>10 cfu/g
		Total plate count	IS 5402:2012; RA 2018	Others :=>10 cfu/g
		Total plate count	ISO 4833:2003; RA 2018	Others :=>10 cfu/g
		Yeast and moulds	IS 5403:1999; RA 2018	Others :=>10 cfu/g
5.	<b>Coffee &amp; Cocoa Products</b>	Detection of Escherichia coli	IS 5887 (Part I):1976; RA 2018	Qualitative : Present/Absent/g/mL
		Detection of Salmonella	IS 5887 (Part-III):1999; RA 2018	Qualitative : Present/Absent/25g/mL
		Detection of Salmonella	ISO 6579-1:2017	Qualitative : Present/Absent/25g/mL
		Detection of Shigella	IS 5887 (Part-VII):1999; RA 2018	Qualitative : Present/Absent/25g/mL
		Detection of Staphylococcus aureus	IS:5887 (Part-II):1976; RA 2018	Qualitative : Present/Absent/25g/mL
		Detection of Vibrio cholerae	IS 5887 (Part V):1976 RA 2018	Qualitative : Present/Absent/25g/mL
		Detection of Vibrio parahaemolyticus	IS 5887 (Part V):1976 RA 2018	Qualitative : Present/Absent/25g/mL
		Enumeration of Coliforms	IS 5401 (Part 1):2012; RA 2018	Others :=>10 cfu/g/mL
		Enumeration of Enterobacteriaceae	IS/ISO 7402:1993; RA 2018	Others :=>10 cfu/g/mL
		Enumeration of Escherichia coli	IS 5887 (Part I):1976; RA 2018	Others :=>10 cfu/g/mL
		Enumeration of Faecal Streptococci	IS:5887 (Part-II):1976; RA 2018	Others :=>10 cfu/g/mL
		Enumeration of Staphylococcus aureus	IS 5887 (Part-VIII / Section -1): 2002; RA 2018	Others :=>10 cfu/g/mL

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		Enumeration of Staphylococcus aureus	IS:5887 (Part-II):1976; RA 2018	Others :=>10 cfu/g/mL
		Enumeration of Staphylococcus aureus	ISO 6888-1:1999	Others :=>10 cfu/g/mL
		Total plate count	IS 5402:2012; RA 2018	Others :=>10 cfu/g/mL
		Total plate count	ISO 4833:2003; RA 2018	Others :=>10 cfu/g/mL
		Yeast and mould count	IS 5403:1999; RA 2018	Others :=>10 cfu/g/mL
6.	<b>Eggs &amp; Egg Products</b>	Detection of Enterobacteriaceae	IS/ISO 7402:1993; RA 2018	Qualitative : Present/Absent/g
		Detection of Escherichia coli	IS 5887 (Part I):1976; RA 2018	Qualitative : Present/Absent/g
		Detection of Salmonella	IS 5887 (Part-III):1999; RA 2018	Qualitative : Present/Absent/25g
		Detection of Salmonella	ISO 6579-1:2017	Qualitative : Present/Absent/25g
		Detection of Shigella	IS 5887 (Part-VII):1999; RA 2018	Qualitative : Present/Absent/25g
		Detection of Staphylococcus aureus	IS:5887 (Part-II):1976; RA 2018	Qualitative : Present/Absent/25g
		Detection of Vibrio cholerae	IS 5887 (Part V):1976 RA 2018	Qualitative : Present/Absent/25g
		Detection of Vibrio parahaemolyticus	IS 5887 (Part V):1976 RA 2018	Qualitative : Present/Absent/25g
		Enumeration of Coliforms	IS 5401 (Part 1):2012; RA 2018	Others :=>10 cfu/g
		Enumeration of Enterobacteriaceae	IS/ISO 7402: 1993; RA 2018	Others :=>10 cfu/g
		Enumeration of Escherichia coli	IS 5887 (Part I):1976; RA 2018	Others :=>10 cfu/g
		Enumeration of Faecal streptococci	IS:5887 (Part-II):1976; RA 2018	Others :=>10 cfu/g

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		Enumeration of Staphylococcus aureus	IS 5887 (Part-VIII/Section-1): 2002; RA 2018	Others :=>10 cfu/g
		Enumeration of Staphylococcus aureus	IS:5887 (Part-II):1976; RA 2018	Others :=>10 cfu/g
		Enumeration of Staphylococcus aureus	ISO 6888-1:1999	Others :=>10 cfu/g
		Total plate count	IS 5402:2012; RA 2018	Others :=>10 cfu/g
		Total plate count	ISO 4833:2003; RA 2018	Others :=>10 cfu/g
		Yeast and mould count	IS 5403:1999; RA 2018	Others :=>10 cfu/g
7.	<b>Fish &amp; Sea Foods</b>	Detection of Escherichia coli	IS 5887 (Part I):1976; RA 2018	Qualitative : Present/Absent/g/mL
		Detection of Salmonella	IS 5887 (Part-III):1999; RA 2018	Qualitative : Present/Absent/25g/25mL
		Detection of Salmonella	ISO 6579-1:2017	Qualitative : Present/Absent/25g/25mL
		Detection of Shigella	IS 5887 (Part-VII):1999; RA 2018	Qualitative : Present/Absent/25g/25mL
		Detection of Staphylococcus aureus	IS 5887 (Part-VIII / Section -1): 2002; RA 2018	Qualitative : Present/Absent/25g/25mL
		Detection of Staphylococcus aureus	IS:5887 (Part-II):1976; RA 2018	Qualitative : Present/Absent/25g/25mL
		Detection of Staphylococcus aureus	ISO 6888-1:1999	Qualitative : Present/Absent/25g/25mL
		Detection of Vibrio cholerae	IS 5887 (Part V): 1976 RA 2018	Qualitative : Present/Absent/25g/25mL

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		Detection of Vibrio parahaemolyticus	IS 5887 (Part V): 1976 RA 2018	Qualitative : Present/Absent/25g /25mL
		Enumeration of Coliforms	IS 5401 (Part 1):2012; RA 2018	Others :=>10 cfu/g/mL
		Enumeration of Enterobacteriaceae	IS/ISO 7402:1993; RA 2018	Others :=>10 cfu/g/mL
		Enumeration of Escherichia coli	IS 5887 (Part I):1976; RA 2018	Others :=>10 cfu/g/mL
		Enumeration of Faecal streptococci	IS:5887 (Part-II):1976; RA 2018	Others :=>10 cfu/g/mL
		Enumeration of Staphylococcus aureus	IS:5887 (Part-II):1976; RA 2018	Others :=>10 cfu/g/mL
		Total plate count	IS 5402:2012; RA 2018	Others :=>10 cfu/g/mL
		Total plate count	ISO 4833:2003; RA 2018	Others :=>10 cfu/g/mL
		Yeast and moulds	IS 5403:1999; RA 2018	Others :=>10 cfu/g/mL
8.	<b>Fruit &amp; Fruit Products</b>	Detection of Escherichia coli	IS 5887 (Part I):1976; RA 2018	Qualitative : Present/Absent/g/mL
		Detection of Salmonella	IS 5887 (Part-III):1999; RA 2018	Qualitative : Present/Absent/25g /25mL
		Detection of Salmonella	ISO 6579-1:2017	Qualitative : Present/Absent/25g /25mL
		Detection of Shigella	IS 5887 (Part-VII):1999; RA 2018	Qualitative : Present/Absent/25g /25mL
		Detection of Staphylococcus aureus	IS:5887 (Part-II):1976; RA 2018	Qualitative : Present/Absent/25g/25mL
		Detection of Vibrio cholerae	IS 5887 (Part V):1976 RA 2018	Qualitative : Present/Absent/25g /25mL

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		Detection of Vibrio parahaemolyticus	IS 5887 (Part V):1976 RA 2018	Qualitative : Present/Absent/25g /25mL
		Enumeration of Coliforms (MPN)	ISO 4831:2006	Qualitative : 0.3 to >110 MPN/g
		Enumeration of Coliforms (MPN)	IS: 5401 (Part 2):2012; RA 2018	Qualitative : 0.3 to >110 MPN/g
		Enumeration of Coliforms - Colony count	IS 5401 (Part 1):2012; RA 2018	Others :=>10 cfu/g
		Enumeration of Enterobacteriaceae	IS/ISO 7402: 1993; RA 2018	Others :=>10 cfu/g
		Enumeration of Escherichia coli	IS 5887 (Part I):1976; RA 2018	Others :=>10 cfu/g
		Enumeration of Faecal streptococci	IS:5887 (Part-II):1976; RA 2018	Others :=>10 cfu/g
		Enumeration of Staphylococcus aureus	IS 5887 (Part-VIII / Section -1): 2002; RA 2018	Others :=>10 cfu/g
		Enumeration of Staphylococcus aureus	IS:5887 (Part-II):1976; RA 2018	Others :=>10 cfu/g
		Enumeration of Staphylococcus aureus	ISO 6888-1:1999	Others :=>10 cfu/g
		Total plate count	IS 5402:2012; RA 2018	Others :=>10 cfu/g
		Total plate count	ISO 4833:2003; RA 2018	Others :=>10 cfu/g
		Yeast and mould count	IS 5403:1999; RA 2018	Others :=>10 cfu/g
9.	Herbs, Spices & Condiments	Detection of Escherichia coli	IS 5887 (Part I):1976; RA 2018	Qualitative : Present/Absent/g
		Detection of Salmonella	IS 5887 (Part-III):1999; RA 2018	Qualitative : Present/Absent /25g
		Detection of Salmonella	ISO 6579-1:2017	Qualitative : Present/Absent /25g

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		Detection of Shigella	IS 5887 (Part-VII):1999; RA 2018	Qualitative : Present/Absent /25g
		Detection of Staphylococcus aureus	IS:5887 (Part-II):1976; RA 2018	Qualitative : Present/Absent/25g
		Detection of Vibrio cholerae	IS 5887 (Part V):1976 RA 2018	Qualitative : Present/Absent /25g
		Detection of Vibrio parahaemolyticus	IS 5887 (Part V):1976 RA 2018	Qualitative : Present/Absent/25g
		Enumeration of Coliforms	IS 5401 (Part 1):2012; RA 2018	Others :=>10 cfu/g
		Enumeration of Enterobacteriaceae	IS/ISO 7402:1993; RA 2018	Others :=>10 cfu/g
		Enumeration of Escherichia coli	IS 5887 (Part I):1976; RA 2018	Others :=>10 cfu/g
		Enumeration of Staphylococcus aureus	IS 5887 (Part-VIII / Section -1): 2002; RA 2018	Others :=>10 cfu/g
		Enumeration of Staphylococcus aureus	IS:5887 (Part-II):1976; RA 2018	Others :=>10 cfu/g
		Enumeration of Staphylococcus aureus	ISO 6888-1:1999	Others :=>10 cfu/g
		Total plate count	IS 5402:2012; RA 2018	Others :=>10 cfu/g
		Total plate count	ISO 4833:2003; RA 2018	Others :=>10 cfu/g
		Yeast and moulds	IS 5403:1999; RA 2018	Others :=>10 cfu/g
10.	Honey & Honey Products	Detection of Shigella	IS 5887 (Part-VII):1999; RA 2018	Qualitative : Present/Absent /25g/25mL
		Detection of Escherichia coli	IS 5887 (Part I):1976; RA 2018	Qualitative : Present/Absent/g/mL
		Detection of Salmonella	IS 5887 (Part-III):1999; RA 2018	Qualitative : Present/Absent /25g/25mL

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		Detection of Salmonella	ISO 6579-1:2017	Qualitative : Present/Absent /25g/25mL
		Detection of Staphylococcus aureus	IS 5887 (Part-VIII / Section -1): 2002; RA 2018	Qualitative : Present/Absent /25g/25mL
		Detection of Staphylococcus aureus	IS:5887 (Part-II):1976; RA 2018	Qualitative : Present/Absent /25g/25mL
		Detection of Staphylococcus aureus	ISO 6888-1:1999	Qualitative : Present/Absent /25g/25mL
		Detection of Vibrio cholerae	IS 5887 (Part V):1976 RA 2018	Qualitative : Present/Absent /25g/25mL
		Detection of Vibrio parahaemolyticus	IS 5887 (Part V):1976 RA 2018	Qualitative : Present/Absent /25g/25mL
		Enumeration of Coliforms	IS 5401 (Part 1):2012; RA 2018	Others :=>10 cfu/g; =>1 cfu/mL
		Enumeration of Escherichia coli	IS 5887 (Part I):1976; RA 2018	Others :=>10 cfu/g; =>1 cfu/mL
		Enumeration of Fecal streptococci	IS:5887 (Part-II):1976; RA 2018	Others :=>10 cfu/g; =>1 cfu/mL
		Enumeration of Staphylococcus aureus	IS:5887 (Part-II):1976; RA 2018	Others :=>10 cfu/g; =>1 cfu/mL
		Total plate count	IS 5402:2012; RA 2018	Others :=>10 cfu/g; =>1 cfu/mL
		Total plate count	ISO 4833:2003; RA 2018	Others :=>10 cfu/g; =>1 cfu/mL
		Yeast and mould count	IS 5403:1999; RA 2018	Others :=>10 cfu/g; =>1 cfu/mL



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11.	Infant Foods	Detection of Escherichia coli	IS 5887 (Part I):1976; RA 2018	Qualitative : Present/Absent/g
		Detection of Faecal streptococci	IS:5887 (Part-II):1976; RA 2018	Qualitative : Present/Absent/g
		Detection of Salmonella	IS 5887 (Part-III):1999; RA 2018	Qualitative : Present/Absent /25g
		Detection of Salmonella	ISO 6579-1:2017	Qualitative : Present/Absent /25g
		Detection of Shigella	IS 5887 (Part-VII):1999; RA 2018	Qualitative : Present/Absent /25g
		Detection of Staphylococcus aureus	IS:5887 (Part-II):1976; RA 2018	Qualitative : Present/Absent/25g
		Detection of Vibrio cholerae	IS 5887 (Part V): 1976 RA 2018	Qualitative : Present/Absent /25g
		Detection of Vibrio parahaemolyticus	IS 5887 (Part V): 1976 RA 2018	Qualitative : Present/Absent/25g
		Enumeration of Coliforms	IS 5401 (Part 1):2012; RA 2018	Others :=>10cfu/g
		Enumeration of Escherichia coli	IS 5887 (Part I):1976; RA 2018	Others :=>10 cfu/g
		Enumeration of Staphylococcus aureus	IS 5887 (Part-VIII/Section-): 2002; RA 2018	Others :=>10 cfu/g
		Enumeration of Staphylococcus aureus	IS:5887 (Part-II):1976; RA 2018	Others :=>10 cfu/g
		Enumeration of Staphylococcus aureus	ISO 6888-1:1999	Others :=>10 cfu/g
		Total plate count	IS 5402:2012; RA 2018	Others :=>10 cfu/g
		Total plate count	ISO 4833:2003; RA 2018	Others :=>10 cfu/g
Yeast and mould count	IS 5403:1999; RA 2018	Others :=>10 cfu/g		

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12.	Jams, Juices, Sauces & Concentrates	Detection of Staphylococcus aureus	IS:5887 (Part-II):1976; RA 2018	Qualitative : Present/Absent/25g/25mL
		Detection of Escherichia coli	IS 5887 (Part I):1976; RA 2018	Qualitative : Present/Absent/g/mL
		Detection of Salmonella	IS 5887 (Part-III):1999; RA 2018	Qualitative : Present/Absent /25g/25mL
		Detection of Shigella	IS 5887 (Part-VII):1999; RA 2018	Qualitative : Present/Absent/25g/25mL
		Detection of Vibrio cholerae	IS 5887 (Part V): 1976 RA 2018	Qualitative : Present/Absent/25g/25mL
		Total plate count	IS 5402:2012; RA 2018	Others :=>10 cfu/g/mL
		Total plate count	ISO 4833:2003; RA 2018	Others :=>10 cfu/g/mL
13.	Meat and Meat Products	Detection of Escherichia coli	IS 5887 (Part I):1976; RA 2018	Qualitative : Present/Absent/g
		Detection of Salmonella	IS 5887 (Part-III):1999; RA 2018	Qualitative : Present/Absent/25g
		Detection of Salmonella	ISO 6579-1:2017	Qualitative : Present/Absent/25g
		Detection of Shigella	IS 5887 (Part-VII):1999; RA 2018	Qualitative : Present/Absent /25g
		Detection of Staphylococcus aureus	IS:5887 (Part-II):1976; RA 2018	Qualitative : Present/Absent 25 g
		Detection of Vibrio cholerae	IS 5887 (Part V): 1976 RA 2018	Qualitative : Present/Absent/25g
		Detection of Vibrio parahaemolyticus	IS 5887 (Part V): 1976 RA 2018	Qualitative : Present/Absent/25g
		Enumeration of Coliforms	IS 5401 (Part 1):2012; RA 2018	Others :=>10 cfu/g
		Enumeration of Enterobacteriaceae	IS/ISO 7402:1993; RA 2018	Others :=>10 cfu/g
		Enumeration of Escherichia coli	IS 5887 (Part I):1976; RA 2018	Others :=>10 cfu/g

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		Enumeration of Faecal streptococci	IS:5887 (Part-II):1976; RA 2018	Others :=> 10 cfu/g
		Enumeration of Pseudomonas spp.	IS 14843:2017	Others :=>10 cfu/g
		Enumeration of Pseudomonas spp.	ISO 13720:2010	Others :=>10 cfu/g
		Enumeration of Staphylococcus aureus	IS 5887 (Part-VIII / Section -1): 2002; RA 2018	Others :=>10 cfu/g
		Enumeration of Staphylococcus aureus	IS:5887 (Part-II):1976; RA 2018	Others :=>10 cfu/g
		Enumeration of Staphylococcus aureus	ISO 6888-1:1999	Others :=>10 cfu/g
		Total plate count	IS 5402:2012; RA 2018	Others :=>10 cfu/g
		Total plate count	ISO 4833:2003; RA 2018	Others :=>10 cfu/g
		Yeast and mould count	IS 5403:1999; RA 2018	Others :=>10 cfu/g
14.	<b>Milk and Dairy Products</b>	Detection of Escherichia coli	IS 5887 (Part I):1976; RA 20 2018	Qualitative : Present/Absent /g/mL
		Detection of Salmonella	IS 5887 (Part-III):1999; RA 20 2018	Qualitative : Present/Absent/25g /25mL
		Detection of Salmonella	ISO 6579-1:2017	Qualitative : Present/Absent /25g /25mL
		Detection of Shigella	IS 5887 (Part-VII):1999; RA 2018	Qualitative : Present/Absent/25g /25mL
		Detection of Vibrio cholerae	IS 5887 (Part V):1976 RA 2018	Qualitative : Present/Absent/25g /25mL

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		Detection of Vibrio parahaemolyticus	IS 5887 (Part V):1976 RA 2018	Qualitative : Present/Absent/25g /25mL
		Enumeration Faecal streptococci	IS:5887 (Part-II):1976; RA 2018	Others :=>10 cfu/g; =>1 cfu/mL
		Enumeration of Coliforms	IS 5401 (Part 1):2012; RA 2018	Others :=>10 cfu/g; =>1 cfu/mL
		Enumeration of Enterobacteriaceae	IS/ISO 7402:1993; RA 2018	Others :=>10 cfu/g; =>1 cfu/mL
		Enumeration of Escherichia coli	IS 5887 (Part I):1976; RA 2018	Others :=>10 cfu/g; =>1 cfu/mL
		Enumeration of Staphylococcus aureus	IS:5887 (Part-II):1976; RA 2018	Others :=>10 cfu/g; =>1 cfu/mL
		Enumeration of Staphylococcus aureus	IS 5887 (Part-VIII / Section -1): 2002; RA 2018	Others :=>10 cfu/g; =>1 cfu/mL
		Enumeration of Staphylococcus aureus	ISO 6888-1:1999	Others :=>10 cfu/g; =>1 cfu/mL
		Total Plate Count	IS 5402:2012; RA 2018	Others :=>10 cfu/g; =>1 cfu/mL
		Total plate count	ISO 4833:2003; RA 2018	Others :=>10 cfu/g; =>1 cfu/mL
		Yeast and mould count	IS 5403:1999; RA 2018	Others :=>10 cfu/g; =>1 cfu/mL
15.	Nuts and Nut Products	Detection of Escherichia coli	IS 5887 (Part I):1976; RA 2018	Qualitative : Present/Absent/g
		Detection of Salmonella	IS 5887 (Part-III):1999; RA 2018	Qualitative : Present/Absent/25g
		Detection of Salmonella	ISO 6579-1:2017	Qualitative : Present/Absent/25g
		Detection of Shigella	IS 5887 (Part-VII):1999; RA 2018	Qualitative : Present/Absent/25g
		Detection of Staphylococcus aureus	IS:5887 (Part-II):1976; RA 2018	Qualitative : Present/Absent/25g
		Detection of Vibrio cholerae	IS 5887 (Part V): 1976 RA 2018	Qualitative : Present/Absent/25g

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		Detection Vibrio parahaemolyticus	IS 5887 (Part V): 1976 RA 2018	Qualitative : Present/Absent/25g
		Enumeration of Coliforms	IS 5401 (Part 1):2012; RA 2018	Others :=>10 cfu/g
		Enumeration of Enterobacteriaceae	IS/ISO 7402:1993; RA 2018	Others :=>10 cfu/g
		Enumeration of Escherichia coli	IS 5887 (Part I):1976; RA 2018	Others :=>10 cfu/g
		Enumeration of Fecal Streptococci	IS:5887 (Part-II):1976; RA 2018	Others :=>10 cfu/g
		Enumeration of Staphylococcus aureus	IS 5887 (Part-VIII / Section -1): 2002; RA 2018	Others :=>10 cfu/g
		Enumeration of Staphylococcus aureus	IS:5887 (Part-II):1976; RA 2018	Others :=>10 cfu/g
		Enumeration of Staphylococcus aureus	ISO 6888-1:1999	Others :=>10 cfu/g
		Total plate count	IS 5402:2012; RA 2018	Others :=>10 cfu/g
		Total plate count	ISO 4833:2003; RA 2018	Others :=>10 cfu/g
		Yeast and mould count	IS 5403:1999; RA 2018	Others :=>10 cfu/g
16.	Oil Seeds & By-Products	Detection of Escherichia coli	IS 5887 (Part I):1976; RA 2018	Qualitative : Present/Absent/g/mL
		Detection of Salmonella	IS 5887 (Part-III):1999; RA 2018	Qualitative : Present/Absent /25g /25mL
		Detection of Salmonella	ISO 6579-1:2017	Qualitative : Present/Absent /25g/25mL
		Detection of Shigella	IS 5887 (Part-VII):1999; RA 2018	Qualitative : Present/Absent /25g/25mL

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		Detection of Staphylococcus aureus	IS:5887 (Part-II):1976; RA 2018	Qualitative : Present/Absent /25g/25mL
		Detection of Vibrio cholerae	IS 5887 (Part V):1976 RA 2018	Qualitative : Present/Absent /25g/25mL
		Detection of Vibrio parahaemolyticus	IS 5887 (Part V):1976 RA 2018	Qualitative : Present/Absent /25g/25mL
		Enumeration of Coliforms	IS 5401 (Part 1):2012; RA 2018	Others :=>10 cfu/g/mL
		Enumeration of Enterobacteriaceae	IS/ISO 7402:1993; RA 2018	Others :=>10 cfu/g/mL
		Enumeration of Escherichia coli	IS 5887 (Part I):1976; RA 2018	Others :=>10 cfu/g/mL
		Enumeration of Fecal Streptococci	IS:5887 (Part-II):1976; RA 2018	Others :=>10 cfu/g/mL
		Enumeration of Staphylococcus aureus	IS 5887 (Part-VIII / Section -1): 2002; RA 2018	Others :=>10 cfu/g/mL
		Enumeration of Staphylococcus aureus	IS:5887 (Part-II):1976; RA 2018	Others :=>10 cfu/g/mL
		Enumeration of Staphylococcus aureus	ISO 6888-1:1999	Others :=>10 cfu/g/mL
		Total plate count	IS 5402: 2012; RA 2018	Others :=>10 cfu/g/mL
		Total plate count	ISO 4833:2003; RA 2018	Others :=>10 cfu/g/mL
		Yeast and mould count	IS 5403:1999; RA 2018	Others :=>10 cfu/g/mL
17.	<b>Other Specified Food Items</b>			
(i)	Ready to serve food	Aerobic Plate count	IS 5402:2012; RA 2018	Others :=>10 cfu/g
		Aerobic Plate count	ISO 4833:2003; RA 2018	Others :=>10 cfu/g

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		Coliform count	IS 5401 (Part 1):2012; RA 2018	Others :>=/10 cfu/g
		Coliform count (MPN)	IS: 5401 (Part 2):2012; RA 2018	Others : 0.3 to > 110 MPN/g
		Detection of Clostridium perfringens	IS: 5887 (Part-IV):1999; RA 2018	Qualitative : Present/Absent/g
		Detection of Escherichia coli	IS 5887 (Part I):1976; RA 2018	Qualitative : Present/Absent/g
		Detection of Salmonella spp.	IS 5887 (Part-III):1999; RA 2018	Qualitative : Present/Absent/25g
		Detection of Salmonella spp.	ISO 6579-1:2017	Qualitative : Present/Absent/25g
		Detection of Shigella spp.	IS 5887 (Part-VII):1999; RA 2018	Qualitative : Present/Absent /25g
		Detection of Staphylococcus aureus	IS:5887 (Part-II):1976; RA 2018	Qualitative : Present/Absent/25g
		Detection of Vibrio cholerae	IS 5887 (Part V):1976 RA 2018	Qualitative : Present/Absent/25g
		Detection of Vibrio parahaemolyticus	IS 5887 (Part V):1976 RA 2018	Qualitative : Present/Absent/25g
		Enumeration of Enterobacteriaceae	IS/ISO 7402:1993; RA 2018	Others :>=/10 cfu/g
		Enumeration of Escherichia coli	IS 5887 (Part I):1976; RA 2018	Others :>=/10 cfu/g
		Enumeration of Faecal streptococci	IS:5887 (Part-II):1976; RA 2018	Others :>=/10 cfu/g
		Enumeration of Staphylococcus aureus	IS 5887 (Part-VIII / Section -1): 2002; RA 2018	Others :>=/10 cfu/g
		Enumeration of Staphylococcus aureus	IS:5887 (Part-II):1976; RA 2018	Others :>=/10 cfu/g
		Enumeration of Staphylococcus aureus	ISO 6888-1:1999	Others :>=/10 cfu/g
		Yeast and mould count	IS 5403:1999; RA 2018	Others :>=/10 cfu/g

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18.	Snacks and Instant Mixes	Detection of Escherichia coli	IS 5887 (Part I):1976; RA 2018	Qualitative : Present/Absent/g
		Detection of Salmonella	IS 5887 (Part-III):1999; RA 2018	Qualitative : Present/Absent/25g
		Detection of Salmonella	ISO 6579-1:2017	Qualitative : Present/Absent/25g
		Detection of Shigella	IS 5887 (Part-VII):1999; RA 2018	Qualitative : Present/Absent/25g
		Detection of Staphylococcus aureus	IS:5887 (Part-II):1976; RA 2018	Qualitative : Present/Absent/25g
		Enumeration of Coliforms	IS 5401 (Part 1):2012; RA 2018	Others :=>10 cfu/g
		Enumeration of Coliforms (MPN)	IS: 5401 (Part 2):2012; RA 2018	Qualitative : 0.3 to >110 MPN/g
		Enumeration of Coliforms (MPN)	ISO 4831:2006	Qualitative : 0.3 to >110 MPN/g
		Enumeration of Enterobacteriaceae	IS/ISO 7402:1993; RA 2018	Others :=>10 cfu/g
		Enumeration of Escherichia coli	IS 5887 (Part I):1976; RA 2018	Others :=>10 cfu/g
		Enumeration of Faecal streptococci	IS:5887 (Part-II):1976; RA 2018	Others :=>10 cfu/g
		Enumeration of Staphylococcus aureus	IS 5887 (Part-VIII / Section -1): 2002; RA 2018	Others :=>10 cfu/g
		Enumeration of Staphylococcus aureus	IS:5887 (Part-II):1976; RA 2018	Others :=>10 cfu/g
		Enumeration of Staphylococcus aureus	ISO 6888-1:1999	Others :=>10 cfu/g
		Total plate count	IS 5402: 2012; RA 2018	Others :=>10 cfu/g
Total plate count	ISO 4833:2003; RA 2018	Others :=>10 cfu/g		
Yeast and mould count	IS 5403:1999; RA 2018	Others :=>10 cfu/g		



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19.	Sugar & Sugar Products	Detection of Escherichia coli	IS 5887 (Part I):1976; RA 2018	Qualitative : Present/Absent/g/mL
		Detection of Salmonella	IS 5887 (Part-III):1999; RA 2018	Qualitative : Present/Absent /25g/25mL
		Detection of Shigella	IS 5887 (Part-VII):1999; RA 2018	Qualitative : Present/Absent /25g/25mL
		Detection of Staphylococcus aureus	IS:5887 (Part-II):1976; RA 2018	Qualitative : Present/Absent /25g/25mL
		Detection of Vibrio cholerae	IS 5887 (Part V): 1976 RA 2018	Qualitative : Present/Absent/25g
		Detection of Vibrio parahaemolyticus	IS 5887 (Part V): 1976 RA 2018	Qualitative : Present/Absent/25g
		Enumeration of Coliforms	IS 5401 (Part 1):2012; RA 2018	Others :=>10 cfu/g
		Enumeration of Enterobacteriaceae	IS/ISO 7402:1993; RA 2018	Others :=>10 cfu/g
		Enumeration of Escherichia coli	IS 5887 (Part I):1976; RA 2018	Others :=>10 cfu/g
		Enumeration of Fecal Streptococci	IS:5887 (Part-II):1976; RA 2018	Others :=>10 cfu/g
		Enumeration of Staphylococcus aureus	IS 5887 (Part-VIII / Section -1): 2002; RA 2018	Others :=>10 cfu/g
		Enumeration of Staphylococcus aureus	IS:5887 (Part-II):1976; RA 2018	Others :=>10 cfu/g
		Enumeration of Staphylococcus aureus	ISO 6888-1:1999	Others :=>10 cfu/g
		Total Plate Count	IS 5402: 2012; RA 2018	Others :=>10 cfu/g
Total plate count	ISO 4833:2003; RA 2018	Others :=>10 cfu/g		
Yeast and mould count	IS 5403:1999; RA 2018	Others :=>10 cfu/g		

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20.	Tea	Detection of Escherichia coli	IS 5887 (Part I):1976; RA 2018	Qualitative : Present/Absent/g/mL
		Detection of Salmonella	IS 5887 (Part-III):1999; RA 2018	Qualitative : Present/Absent /25g/25mL
		Detection of Salmonella	ISO 6579-1:2017	Qualitative : Present/Absent /25g/25mL
		Detection of Shigella	IS 5887 (Part-VII):1999; RA 2018	Qualitative : Present/Absent /25g/25mL
		Detection of Staphylococcus aureus	IS:5887 (Part-II):1976; RA 2018	Qualitative : Present/Absent /25g/25mL
		Detection of Vibrio cholerae	IS 5887 (Part V):1976 RA 2018	Qualitative : Present/Absent /25g/25mL
		Detection of Vibrio parahaemolyticus	IS 5887 (Part V):1976 RA 2018	Qualitative : Present/Absent /25g/25mL
		Enumeration of Coliforms	IS 5401 (Part 1):2012; RA 2018	Others :=>10 cfu/g
		Enumeration of Enterobacteriaceae	IS/ISO 7402: 1993; RA 2018	Others :=>10 cfu/g
		Enumeration of Escherichia coli	IS 5887 (Part I):1976; RA 2018	Others :=>10 cfu/g
		Enumeration of Staphylococcus aureus	IS 5887 (Part-VIII / Section -1): 2002; RA 2018	Others :=>10 cfu/g
		Enumeration of Staphylococcus aureus	IS:5887 (Part-II):1976; RA 2018	Others :=>10 cfu/g
		Enumeration of Staphylococcus aureus	ISO 6888-1:1999	Others :=>10 cfu/g
		Total plate count	IS 5402:2012; RA 2018	Others :=>10 cfu/g

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		Total plate count	ISO 4833:2003; RA 2018	Others :=>10 cfu/g
		Yeast and mould count	IS 5403:1999; RA 2018	Others :=>10 cfu/g
21.	Vegetables and Vegetable Products	Detection of Escherichia coli	IS 5887 (Part I):1976; RA 2018	Qualitative : Present/Absent/g
		Detection of Salmonella	IS 5887 (Part-III):1999; RA 2018	Qualitative : Present/Absent/25 g
		Detection of Salmonella	ISO 6579-1:2017	Qualitative : Present/Absent/25g
		Detection of Shigella	IS 5887 (Part-VII):1999; RA 2018	Qualitative : Present/Absent/25g
		Detection of Staphylococcus aureus	IS:5887 (Part-II):1976; RA 2018	Qualitative : Present/Absent/25g
		Detection of Vibrio cholerae	IS 5887 (Part V):1976 RA 2018	Qualitative : Present/Absent/25g
		Detection of Vibrio parahaemolyticus	IS 5887 (Part V):1976 RA 2018	Qualitative : Present/Absent/25g
		Enumeration of Coliforms	IS 5401 (Part 1):2012; RA 2018	Others :=>10 cfu/g
		Enumeration of Coliforms	ISO 4831:2006	Qualitative : 0.3 to > 110 MPN/g
		Enumeration of Coliforms (MPN)	IS: 5401 (Part 2):2012; RA 2018	Qualitative : 0.3 to > 110 MPN/g
		Enumeration of Enterobacteriaceae	IS/ISO 7402:1993; RA 2018	Others :=>10 cfu/g
		Enumeration of Escherichia coli	IS 5887 (Part I):1976; RA 2018	Others :=>10 cfu/g
		Enumeration of Staphylococcus aureus	IS 5887 (Part-VIII / Section -1): 2002; RA 2018	Others :=>10 cfu/g
Enumeration of Staphylococcus aureus	IS:5887 (Part-II):1976; RA 2018	Others :=>10 cfu/g		

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		Enumeration of Staphylococcus aureus	ISO 6888-1:1999	Others :>10 cfu/g
		Total plate count	IS 5402: 2012; RA 2018	Others :>10 cfu/g
		Total plate count	ISO 4833:2003; RA 2018	Others :>10 cfu/g
		Yeast and Mould count	IS 5403:1999; RA 2018	Others :>10 cfu/g

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<b><u>CHEMICAL TESTING</u></b>				
<b>I.</b>	<b>FOOD &amp; AGRICULTURAL PRODUCTS</b>			
<b>1.</b>	<b>Bakery &amp; confectionery products</b>			
(i)	Bakery products	Acidity of extracted fats	AOAC 19th Edition Method 939.05: 2012	0.1 g/100g to 5 g/100g
		Acidity of extracted fats	IS 1011: 2009	0.1 g/100g to 5 g/100g
		Acidity of extracted fats	IS 12711: 1994	0.1 g/100g to 5 g/100g
		Alcoholic acidity as H <sub>2</sub> SO <sub>4</sub>	Manual Cereal & Cereal Products 2016: 2016	0.01 % to 5.0 %
		Alcoholic acidity as H <sub>2</sub> SO <sub>4</sub>	IS 11231:2005	0.01 % to 5.0 %
		Alcoholic acidity as H <sub>2</sub> SO <sub>4</sub>	IS 12711:1994	0.01 % to 5.0 %
		Fat content	AOAC 19th Edition Ch 33 937.05: 2012	1 g/100g to 15 g/100g
(ii)	Confectionery Chocolates and Candies	Fat	IS 4941:2008	1 g/100g to 30 g/100g
		Fat	IS 6287:1999	1 g/100g to 30 g/100g
		Gum base	IS 6747:2005	1 g/100g to 20 g/100g
		Gum base	IS 6747:2010	1 g/100g to 20 g/100g
		Milk fat	IS 1163:2009	1 g/100g to 30 g/100g
		Milk solid	IS 1163:2009	1 g/100g to 25 g/100g
		Reducing sugar	IS 4941:2008	0.1 g/100g to 25 g/100g
		Reducing sugar	IS 6287: 1999	0.1 g/100g to 25 g/100g
		Sucrose	AOAC 19th Edition Method 920.82 & 925.48: 2012	1 g/100g to 50 g/100g
		Sucrose	FSSAI Manual for Sugar & Sugar products & Confectionery	1 g/100g to 50 g/100g

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		Sucrose	IS 1163: 2009	1 g/100g to 50 g/100g
		Sucrose	IS 6287: 1999	1 g/100g to 50 g/100g
		Sulfated ash	IS 4941: 2008	0.01 g/100g to 5 g/100g
		Sulfated ash	IS 6287: 1999	0.01 g/100g to 5 g/100g
(iii)	Ready to eat foods, Traditional sweets & sweetmeats / Bakery & confectionary Products, all varieties of Desserts, cake, biscuits, pizza base, pastries, patties, cold dough, sandwich, puffs, cereal bars, fudge, toffees, fruit jellies, bread, rolls Choco lava cake, buns, puddings, ready to eat snacks/ food / sauce/noodles, vermicelli, Ready to Eat Food Suji Halwa, Veg. Pulav, Peas & Mushroom, Curried, Dal Makhani, Chapati / Paratha, macaroni, pickle, pasta, potato chips, ready to serve food in restaurants	Added colouring matter-Synthetic	FSSAI Manual Cereals & Cereal Products: 2016	Qualitative
		Alcoholic acidity as H <sub>2</sub> SO <sub>4</sub>	FSSAI Manual Cereal & Cereal Products: 2016	0.01 % to 10 %
		Alkalinity of soluble ash	AOAC 19th Edition Method 900.02D: 2012	0.01 g/100g to 10 g/100g
		Salt as NaCl	IS 1797:1985, Manual 6, Cl 2.3: 2009	0.1 g/100g to 50 g/100g
		Total ash soluble in boiling distilled water	IS 13855: 1999	0.1 g/100g to 5 g/100g

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<b>2.</b>	<b>Beverages (Alcoholic / Non-alcoholic)</b>			
(i)	Alcoholic drinks and beverages	Alcohol content	IS 3752: 2005	5 g/100 mL to 70 g/100 mL
		Methanol content	IS 3752: 2005	≥10g/100L
		Aldehydes	IS 3752: 2005	0.01 g/100L to 50 g/100L
		Appearance	Visual: 2018	Qualitative (Present/absent)
		Colour	Visual: 2018	Qualitative (Present/absent)
		Esters	IS 3752: 2005	0.1 g/100L to 200 g/100L
		Freedom from sedimentation and harmful ingredients	IS 3752: 2005	Qualitative test (Present/absent)
		Furfural	IS 3752: 2005	1 g/100L to 100 g/100L
		Residue on evaporation	IS 3752: 2005	1 g/100L to 15 g/100L
		Total acids as tartaric acid (Expressed in terms of 100 ltrs of absolute alcohol)	IS 3752: 2005	10 g/100L to 2500 g/100L
		Volatile Acidity	IS 3752: 2005	0.1 g/100L to 150 g/100L
		Volatile acids as Acetic acid (expressed in terms of 100 ltrs of absolute alcohol)	IS 3752: 2005	0.1 g/100L to 150 g/100L
<b>3.</b>	<b>Cereals, pulses &amp; cereal products</b>			
(i)	Atta Maida Corn starch	Alcoholic acidity as H <sub>2</sub> SO <sub>4</sub>	IS 11231: 2005	0.01 % to 5.0 %
		Gluten	IS 1010: 1968	1 g/100g to 20 g/100g
		Total ash	IS 4684	0.02 g/100g to 5 g/100g
		Total nitrogen	IS 5194: 2002	1 g/100g to 30 g/100g
		Uric acid	IS 4333: 2012	Qualitative (Absent/present)

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(ii)	Bread & Biscuits	Benzoic acid including salt	AOAC 19th Edition Method 963.19: 2012	20 mg/kg to 1500 mg/kg
(iii)	Food grains	Extraneous Matter	IS 4333: 2012	0.01 g/100g to 6.0 g/100g
		Other Edible grains	IS 4333: 2012	0.01 g/100g to 6.0 g/100g
		Weevilled grains	IS 4333: 2012	0.01 g/100g to 5.0 g/100g
<b>4.</b>	<b>Coffee &amp; cocoa products</b>			
(i)	Coffee cocoa and by products	Cocoa Butter	AOAC 19th Edition Method 963.15: 2012	1 g/100g to 50 g/100g
		Determination of Water extract	IS 13862: 1999	2.0 g/100g to 50 g/100g
		Alkalinity of ash as K <sub>2</sub> O on moisture and fat free basis	IS 1164: 2012	0.01 g/100g to 10 g/100g
		Alkalinity of ash as K <sub>2</sub> O on moisture and fat free basis	IS 13856: 1998	0.01 g/100g to 10 g/100g
		Alkalinity of ash as K <sub>2</sub> O on moisture and fat free basis	IS 3077: 1998	0.01 g/100g to 10 g/100g
		Caffeine content	IS 3077: 1998	0.01 g/100g to 5 g/100g
		Cocoa solids	AOAC 19th Edition method 931.05: 2012	1 g/100g to 20 g/100g
		Dry Matter	IS 13852: 1999	70.0 g/100g to 98 g/100g
		Dry Matter	IS 13854: 1999	70.0 g/100g to 98 g/100g
		Moisture	IS 1164: 2012	0.01 g/100g to 15 g/100g
		Moisture	IS 2791: 2009	0.01 g/100g to 15 g/100g
		Moisture	IS 3077: 1998	0.01 g/100g to 15 g/100g
		Water soluble ash	AOAC 19th Ed: 2012	1.0 g/100g to 2.2 g/100g
		Water soluble ash	IS 13855: 1998	1.0 g/100g to 2.2 g/100g



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<b>5.</b>	<b>Edible colours &amp; flavours</b>			
(i)	Synthetic Colours (Singly Or In Combination)	Brilliant Blue	ARLBL/CHE/STP-011: 2016	0.5 mg/kg to 50 mg/kg
		Carmoisine	ARLBL/CHE/STP-011: 2016	0.5 mg/kg to 50 mg/kg
		Erythrosine	ARLBL/CHE/STP-011: 2016	0.5 mg/kg to 50 mg/kg
		Fast Green	ARLBL/CHE/STP-011: 2016	0.5 mg/kg to 50 mg/kg
		Indigo Carmine	ARLBL/CHE/STP-011: 2018	0.5 mg/kg to 50 mg/kg
		Ponceau 4R	ARLBL/CHE/STP-011: 2016	0.5 mg/kg to 50 mg/kg
		Sunset yellow	ARLBL/CHE/STP-011: 2016	0.5 mg/kg to 50 mg/kg
		Tartrazine	ARLBL/CHE/STP-011: 2018	0.5 mg/kg to 50 mg/kg
<b>6.</b>	<b>Honey &amp; honey products</b>	Acidity as formic acid	IS 4941: 2002	0.001 g/100g to 10 g/100g
		Optical Density	IS 4941: 2002	0.01 to 2
		Reducing Sugar	IS 4941: 2008	1 g/100g to 90 g/100g
		Hydroxy methyl furfural	IS 4941: 2002	1 mg/kg to 100 mg/kg
		Reducing sugar	IS 4941: 2002	1 g/100g to 90 g/100g
<b>7.</b>	<b>Meat &amp; meat products</b>	Protein nitrogen	IS 5960: 1996	1 g/100g to 90 g/100g
		Sodium chloride (Salt)	IS 14950: 2001	0.1 g/100g to 5 g/100g
		Total volatile base (Nitrogen) for fish	FSSAI MANUAL FOR MEAT & MEAT PRODUCTS AND FISH & FISH: 2016	0.1 g/100g to 20 g/100g
		Sodium chloride (Salt)	IS 14950: 2001	0.1 g/100g to 5 g/100g
		Protein	IS 5960: 2001	1 g/100g to 90 g/100g

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8.	<b>Milk &amp; dairy products</b>	Boric acid	IS 1479: 2003	Qualitative (Present/Absent)
		Urea	AOAC 19th Edition Method 967.07: 2012	Qualitative (Present/Absent)
		Detergents Detergent containing Alkyl Benzene Sulphonic acid	IS 8401: 2000	Qualitative (Present/Absent)
		Hypochlorites and Chloramines	IS 1479: 2009	Qualitative (Present/Absent)
		Salt (NaCl)	IS 3507: 2003	Qualitative (Present/Absent)
		Test for presence of Starch	IS 1479: 2003	Qualitative (Present/Absent)
9.	<b>Nuts &amp; nut products</b>	Acidity of extracted fat as oleic acid	IS 1011: 2009	0.001 g/100g to 5 g/100g
		Block or Brown spots	IS 4333: 2012	0.1 g to 100 g
		Damaged discoloured units	IS 4333: 2012	0.1 g to 100 g
		Extraneous Matter	IS 4333: 2012	0.1 g to 100 g
		Spoilage by insect & rodents	IS 4333: 2012	0.1 g to 100 g
10.	<b>Oil seeds &amp; by-products</b>			
(i)	Soybean oil Rice bran oil groundnut oil	Acid value	FSSAI MANUAL OIL & FAT: 2016	0.1 meq/kg to 10 meq/kg
		Acid value	IS 548: 2010	0.1 meq/kg to 10 meq/kg
		Acid value	IS 548: 2015	0.1 meq/kg to 10 meq/kg
		Acid value	ISO 660: 1996	0.1 meq/kg to 10 meq/kg
		Acid value	IUPAC 2.201: 1979	0.1 meq/kg to 10 meq/kg
		Argemone oil	IS 548: 2010	Qualitative (Present/Absent)
	Baudouin test	IS 3508: 2003	Qualitative (Present/Absent)	

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		BR Value	AOAC 19th Edition 921.08: 2012	30 to 70
		BR Value	IS 3508: 2003	30 to 70
		Castor oil	IS 548: 2010	Qualitative (Present/Absent)
		Free fatty acid as oleic acid	IS 548: 2010	0.1 g/100g to 10 g/100g
		Melting Point	IS 548: 2010	Qualitative :25°C to 100°C
		Mineral oil	IS 548: 2010	Qualitative: MU has to be changed
		Refractive index	AOAC 19th ED Ch 24,26: 2012	1.30 to 1.70
		Refractive index	FSSAI MANUAL OIL & FAT: 2016	1.30 to 1.70
		Refractive index	IS 548: 2010	1.30 to 1.70
		Specific gravity	AOAC 19th ED Ch 24,26: 2012	0.5 g/mL to 3 g/mL
		Specific gravity	FSSAI MANUAL OIL & FAT: 2016	0.5 g/mL to 3 g/mL
		Specific gravity	IS 548: 2010	0.5 g/mL to 3 g/mL
		Volatile Matter	AOAC 19th Edition 926.12,984.20: 2012	0.1 g/100g to 25 g/100g
		Volatile Matter	IS 548: 2010	0.1 g/100 to 25 g/100g
		Volatile oil	AOAC 19th Ed Ch 43 970.55: 2012	0.3 g/100g to 20 g/100g
		Volatile oil	IS 548: 2010	0.3 g/100g to 20 g/100g
<b>11.</b>	<b>Nutritional Value and General Products</b>			
(i)	Biscuit, Atta, Milk, Milk Powder Vanaspati & Ghee	Protein	IS 4684:1975 RA 20 1983	0.5 g/100g to 80 g/100g
(ii)	Artificial Sweeteners (Singly)	Acesulfame potassium	ARLBL/CHE/STP-009: 2016	8 mg/kg to 990 mg/kg

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		Sucralose	ARLBL/CHE/STP-007: 2016	500 mg/kg to 5000 mg/kg
(iii)	Biscuit Atta Mil, Milk Powder	Vit C (Ascorbic acid)	AOAC 967.21 19th ED: 2012	30.0 mg/100g to 500 mg/100g
		Vit C (Ascorbic Acid)	IS 5838: 2005	30.0 mg/100g to 500 mg/100g
(iv)	Biscuit, Atta, Milk, Milk Powder, Vanaspati & Ghee	Carbohydrate	AOAC 986.25 19th Ed Ch 50: 2012	0.5 % to 90 %
		Fat	IS 4684:1975 RA 20 1983	0.1 g/100g to 30 g/100g
		Acid insoluble ash	IS 4706 (Part 2): 1978 RA 20 2005	0.05 g/100g to 5 g/100g
		Ash content / Total ash	IS 4684	0.05 g/100g to 5 g/100g
		Carbohydrate	IS 1656:2007 RA 20 2009	0.5% to 90%
		Crude Fiber / Total Fiber	IS 12711:1989 RA 20 1994	0.1 g/100g to 25 g/100g
		Crude Fiber / Total Fiber	IS 1656: 2007 (RA 2012)	0.1 g/100g to 25 g/100g
		Determination of Sugars	FSSAI MANUAL, Sugar and sugar products	0.1 g/100g to 50 g/100g
		Determination of Sugars	IS 4079: 2000	0.1 g/100g to 50 g/100g
		Dietary Fiber	AOAC 19 <sup>th</sup> Edition, Method 991.43: 2012	0.5 g/100g to 80 g/100g
		Dietary Fiber	IS 11062:1984 (RA 20 2010)	0.5 g/100g to 80 g/100g
		Energy or Calories	IS 14433: 2007	Max 900 Kcal/100g
		Free Fatty Acid	IS 548 (Part 1):1964 RA 20 2010	0.01 g/100g to 10 g/100g
	Moisture / LOD	IS 12711:1989 RA 20 1994	0.5 g/100g to 95 g/100g	
	Monounsaturated fat	AOAC 19th Edition Method 996.06: 2012	0.1 g/100g to 50 g/100g	

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		pH	AOAC 19 <sup>th</sup> Edition, Method 945.27: 2012	1 to 14
		Polyunsaturated fat	AOAC 19 <sup>th</sup> Edition, Method 996.06: 2012	0.1 g/100g to 10 g/100g
		Saturated fat	AOAC 19 <sup>th</sup> Edition, Method 996.06: 2012	0.1 g/100g to 85 g/100g
		Sulphated ash	IS 4706	0.05 g/100g to 5 g/100g
		Trans fat	AOAC 19 <sup>th</sup> Edition, 994.10: 2012	0.05 g/100g to 4 g/100g
		Trans fat	AOAC 19 <sup>th</sup> Edition, Method 996.06 and 969.33: 2012	0.05 g/100g to 4 g/100g
(v)	Chilli powder Cumin powder Turmeric powder Coriander powder Garam masala	Acid insoluble matter	IS 253: 2009	0.05 g/100g to 5 g/100g
		Bulk Density	IS 1797: 2009	0.5 g/mL to 30 g/mL
		Chloride as NaCl	IS 1797: 2009	0 g/100g to 5 g/100g
		Crude fiber	IS 1797: 2009	1 g/100g to 20 g/100g
		Nonvolatile ether extract	IS 1797: 2009	1 g/100g to 30 g/100g
		Volatile oil	IS 1797: 2009	0.3 g/100g to 15 g/100g
		Water insoluble matter	IS 253: 2009	0.05 g/100g to 5 g/100g
(vi)	Egg/egg powder mayonnaise	Lecithin and Fat	IS 4723: 1978	1 g/100g to 50 g/100g
		Nitrogen Protein	IS 7219: 2005	10 g/100g to 70 g/100g
		Nitrogen Protein	IS 4723: 1978	10 g/100g to 70 g/100g
		Salt	IS 14950: 2001	0.1 g/100g to 5 g/100g
(vii)	Emulsifying & Stabilising Agents (Single Or In Combination)	Di-acetyl tartaric acid esters of mono & diglycerides	FSSAI Manual of Analysis of food additives	Qualitative (present/Absent)
		Modified starch	FSSAI Manual of Analysis of food additives	Qualitative (present/Absent)
		Polyglycerol esters of fatty acids & Polyglycerol ester of interesterified Ricinoleic acid	BY HPLC: 2018	Qualitative (Present/Absent)
		Sucroglycerides	FSSAI Manual of Analysis of food additives	Qualitative (present/Absent)

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(viii)	Flour Treatment Agents	Benzoyl peroxide	ARLBL/CHE/STP-012: 2018	10 mg/kg to 200 mg/kg
(x)	Leavening Agents	Ammonium carbonate	AOAC 19th Edn: 2012	Qualitative (Present/Absent)
		Aspartame	ARLBL/CHE/STP-010: 2016	28 mg/kg to 2200 mg/kg
(x)	Other Contaminants	Melamine	ELISA Kit [ARLBL/CHE/STP-019]: 2018	25 ug/kg to 250 ug/kg
(xi)	Salt	Chloride content	IS 253: 2009	70 g/100g to 99 g/100g
		Salt as NaCl	IS 253: 2009	70 g/100g to 99 g/100g
<b>II.</b>	<b>RESIDUE IN FOOD PRODUCTS</b>			
<b>1.</b>	<b>Bakery &amp; Beverages</b>			
(i)	Metal Contaminants Biscuits	Zinc	ARLBL/CHE/STP-024: 2018	1.0 mg/kg to 100.0 mg/kg
		Tin	ARLBL/CHE/STP-024: 2018	1.0 mg/kg to 100.0 mg/kg
		Methyl mercury	ARLBL/CHE/STP-024: 2018	1.0 mg/kg to 100.0 mg/kg
		Lead (as Pb)	ARLBL/CHE/STP-024: 2018	1.0 mg/kg to 100.0 mg/kg
		Mercury	ARLBL/CHE/STP-024: 2018	1.0 mg/kg to 100.0 mg/kg
(i)	Crop contaminants	Total Aflatoxins [B1, B2, G1 & G2]	ELISA KIT [ARLBL/MB/STP-018]: 2018	Qualitative
(iii)	Metal contaminants biscuits	Arsenic	ARLBL/CHE/STP-024: 2018	1.0 mg/kg to 100.0 mg/kg
		Cadmium	ARLBL/CHE/STP-024: 2018	1.0 mg/kg to 100.0 mg/kg
		Copper	ARLBL/CHE/STP-024: 2018	1.0 mg/kg to 100.0 mg/kg

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(iv)	Atta Biscuit garam masala Orange juice	Boron	ARLBL/CHE/STP-024: 2018	1.0 mg/kg to 100.0 mg/kg
		Cadmium	ARLBL/CHE/STP-024: 2018	1.0 mg/kg to 100.0 mg/kg
		Calcium	ARLBL/CHE/STP-024: 2018	1.0 mg/kg to 100.0 mg/kg
		Chromium	ARLBL/CHE/STP-024: 2018	1.0 mg/kg to 100.0 mg/kg
		Cobalt	ARLBL/CHE/STP-024: 2018	1.0 mg/kg to 100.0 mg/kg
		Copper	ARLBL/CHE/STP-024: 2018	1.0 mg/kg to 100.0 mg/kg
		Iron	ARLBL/CHE/STP-024: 2018	1.0 mg/kg to 100.0 mg/kg
		Manganese	ARLBL/CHE/STP-024: 2018	1.0 mg/kg to 100.0 mg/kg
		Lead	ARLBL/CHE/STP-024: 2018	1.0 mg/kg to 100.0 mg/kg
		Magnesium	ARLBL/CHE/STP-024: 2018	1.0 mg/kg to 100.0 mg/kg
		Mercury	ARLBL/CHE/STP-024: 2018	1.0 mg/kg to 100.0 mg/kg
		Nickel	ARLBL/CHE/STP-024: 2018	1.0 mg/kg to 100.0 mg/kg
		Potassium	ARLBL/CHE/STP-024: 2018	1.0 mg/kg to 100.0 mg/kg
		Selenium	ARLBL/CHE/STP-024: 2018	1.0 mg/kg to 100.0 mg/kg
		Silica	ARLBL/CHE/STP-024: 2018	1.0 mg/kg to 100.0 mg/kg
		Sodium	ARLBL/CHE/STP-024: 2018	1.0 mg/kg to 100.0 mg/kg
Tin	ARLBL/CHE/STP-024: 2018	1.0 mg/kg to 100.0 mg/kg		

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		Zinc	ARLBL/CHE/STP-024: 2018	1.0 mg/kg to 100.0 mg/kg
		Aluminium	ARLBL/CHE/STP-024: 2018	1.0 mg/kg to 100.0 mg/kg
		Antimony	ARLBL/CHE/STP-024: 2018	1.0 mg/kg to 100.0 mg/kg
		Arsenic	ARLBL/CHE/STP-024: 2018	1.0 mg/kg to 100.0 mg/kg
		Barium	ARLBL/CHE/STP-024: 2018	1.0 mg/kg to 100.0 mg/kg
<b>2.</b>	<b>Sugar &amp; sugar products</b>			
(i)	Sugar and by products (invert syrups caramel refined sugar soft sugar jaggery Glucose Liquid Glucose)	Extraneous matter	IS 12923: 1990	0.01 g/100g to 6.0 g/100g
		Extraneous matter	IS 13952: 1994	0.01 g/100g to 6.0 g/100g
		Acidity	IS 13857: 1993	0.1 g/100g to 10 g/100g
		Acidity	ISO 1577: 1987	0.1 g/100g to 10 g/100g
		Crystal Size (Retention on 500 um Sieve)	IS 5975: 2003	50 % to 100 %
		Determination of Sulphur dioxide	AOAC 19th Edition Method 990.28: 2012	1 mg/kg to 50 mg/kg
		Dextrose equivalent	IS 873: 2010	0.1 g/100g to 95 g/100g
		Extraneous matter	IS 1008: 2004	0.01 g/100g to 6.0 g/100g
		Extraneous matter	IS 1151: 2003	0.01 g/100g to 6.0 g/100g
		Extraneous matter	IS 15279: 2003	0.01 g/100g to 6.0 g/100g
		Solid content	AOAC 19th Edition Method 932.14: 2012	20 g/100g to 98 g/100g
		Solid content	IS 4467: 2001	20 g/100g to 98 g/100g
		Solid content	IS 873: 2010	20 g/100g to 98 g/100g
		Sucrose content	AOAC 19th Edition Method 925.46, 925.47, 925.48, 896.02: 2012	50 g/100g to 100 g/100g



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		Sucrose content	IS 15279: 2003	50 g/100g to 100 g/100g
		Sucrose content	IS 6287: 1999	50 g/100g to 100 g/100g
		Determination of Sulphur dioxide	AOAC 19th Edition Method 990.28: 2012	1 mg/kg to 50 mg/kg
		Dextrose equivalent	IS 873: 2010	0.1 g/100g to 95 g/100g
		Extraneous matter	IS 1008: 2004	0.01 g/100g to 6.0 g/100g
		Extraneous matter	IS 1151: 2003	0.01 g/100g to 6.0 g/100g
		Extraneous matter	IS 15279: 2003	0.01 g/100g to 6.0 g/100g
		Solid content	AOAC 19th Edition Method 932.14: 2012	20 g/100g to 98 g/100g
		Solid content	IS 4467: 2001	20 g/100g to 98 g/100g
		Solid content	IS 873: 2010	20 g/100g to 98 g/100g
		Sucrose content	AOAC 19th Edition Method 925.46, 925.47, 925.48, 896.02: 2012	50 g/100g to 100 g/100g
		Sucrose content	IS 15279: 2003	50 g/100g to 100 g/100g
		Sucrose content	IS 6287: 1999	50 g/100g to 100 g/100g
<b>III.</b>	<b>WATER</b>			
1.	Drinking water, packaged drinking water, packaged Natural Mineral water, water for processed food industries	Appearance	Visual: 2018	Qualitative
		Chloride	IS 3025: 2007	5 mg/L to 2000 mg/L
		Colour	IS 3025: 2006	Qualitative
		Conductivity	IS 3025: 2006	Qualitative
		Fluoride	IS 3025: 2008	1.0 mg/L to 5 mg/L
		Mineral oil	IS 3025: 2003	0.1 mg/L to 1 mg/L
		Nitrate (as NO <sub>3</sub> )	APHA 23rd Edition Method 4500-NO <sub>3</sub> : 2017	0.05 mg/L to 45 mg/L
		Nitrate (as NO <sub>3</sub> )	IS 3025: 2003	0.05 mg/L to 45 mg/L
		Nitrite (as NO <sub>2</sub> )	APHA 23rd Edition Method 4500-NO <sub>2</sub> : 2017	0.1 mg/L to 100 mg/L
		Nitrite (as NO <sub>2</sub> )	IS 3025: 2003	0.1 mg/L to 100 mg/L
		Odour	IS 3025: 2002	Qualitative

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		Oxygen absorbed in 4 hrs	IS 3025: 2007	1 mg/L to 10 mg/L
		pH value	IS 3025: 2002	3.0 mg/L to 11.0 mg/L
		Phenolic compounds	IS 3025 (Part-43) 1992, Cl-6: 2003	0.001 mg/L to 1 mg/L
		Refractive index	IS 548: 2010	1.30 to 1.70
		Residual free Chlorine	IS 3025: 2003	0.05 mg/L to 5 mg/L
		Silica	IS 3025: 2004	0.02 mg/L to 250 mg/L
		Sulfates	IS 3025: 2003	0.1 mg/L to 600 mg/L
		Taste	IS 3025: 2002	Qualitative
		Total Hardness	IS 3025: 2009	10 mg/L to 1000 mg/L
		Total Kjeldhal nitrogen	APHA (23rd Edition) for water and waste water: 2017	1 mg/L to 50 mg/L
		Total suspended solids	IS 3025: 2012	50 mg/L to 5000 mg/L
		Turbidity	IS 3025: 2006	1 NTU to 1000 NTU
		Alkalinity	IS 3025: 2003	20 mg/L to 600 mg/L
<b>2.</b>	<b>Residue in water</b>			
(i)	Drinking water, packaged drinking water, packaged Natural Mineral water, water for processed food industries	Zinc	IS 3025: 2004	0.01 mg/L to 2 mg/L
		Silver	IS 3025: 2004	0.01 mg/L to 2 mg/L
		Sodium	IS 3025: 2004	0.1 mg/L to 500 mg/L
		Selenium	IS 3025: 2004	0.01 mg/L to 2 mg/L
		Potassium	IS 3025: 2004	0.10 mg/L to 500 mg/L
		Molybednum (as Mo)	IS 3025: 2004	0.01 mg/L to 2 mg/L
		Nickel	IS 3025: 2004	0.01 mg/L to 2 mg/L
		Iron	IS 3025: 2004	0.01 mg/L to 2 mg/L
		Lead	IS 3025: 2004	0.01 mg/L to 2 mg/L
		Magnesium	IS 3025: 2004	0.10 mg/L to 250 mg/L
		Manganese	IS 3025: 2004	0.01 mg/L to 2 mg/L
		Copper	IS 3025: 2004	0.01 mg/L to 2 mg/L
		Chromium/Hexavalent Chromium	IS 3025: 2004	0.01 mg/L to 2 mg/L

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		Arsenic	IS 3025: 2004	0.01 mg/L to 2 mg/L
		Barium	IS 3025: 2004	0.01 mg/L to 2 mg/L
		Boron	IS 3025: 2004	0.01 mg/L to 2 mg/L
		Cadmium	IS 3025: 2004	0.01 mg/L to 2 mg/L
		Calcium	IS 3025: 2004	0.10 mg/L to 500 mg/L
		Aluminium	IS 3025: 2004	0.01 mg/L to 2 mg/L
		Ammonia (Total NH <sub>3</sub> -N)	IS 3025: 2003	0.1 mg/L to 1 mg/L
		Antimony	IS 3025: 2004	0.01 mg/L to 2 mg/L
<b>IV.</b>	<b>COSMETICS &amp; ESSENTIAL OILS</b>			
1.	<b>Cosmetics and toiletries</b>			
(i)	Hair oil	Acid value	IS 7123:1993 RA 20 1998	0.1 to 2
(ii)	Lipstick	Arsenic	IS 9875:1990 RA 2005	Qualitative
		Heavy metals (Lead)	IS 9875:1990 RA 2005	Qualitative
		Particle size	IS 9875:1990 RA 2005	Qualitative
		Softening point	IS 9875:1990 RA 2005	45 <sup>o</sup> C to 75 <sup>o</sup> C
(iii)	Shampoo	Non-volatile alcohol soluble matter	IS 7884: 2004	10 g/100g to 50 g/100g
		pH	IS 7884: 2004	1.0 to 14.0
		Physical characteristics	IS 7884: 2004	Qualitative
(iv)	Shaving cream	Consistency	IS 9740:1981 RA 2001	Qualitative
		Effect on container	IS 9740:1981 RA 2001	Qualitative
		Foaming powder	IS 9740:1981 RA 2001	10.0 ml to 250.0mL
		Free caustic alkalinity	IS 9740:1981 RA 2001	Qualitative
		Homogeneity	IS 9740:1981 RA 2001	Qualitative
		Stability	IS 9740:1981 RA 2001	Qualitative

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		Total fatty matter	IS 9740:1981 RA 2001	10 g/100g to 50.0 g/100g
		Water content	IS 9740:1981 RA 2001	10 g/100g to 60.0 g/100g
(v)	Skin cream	Arsenic	IS 6608: 2004	Qualitative
		Heavy metals (Lead	IS 6608: 2004	Qualitative
		Thermal stability	IS 6608: 2004	Qualitative
		Total fatty substances	IS 6608: 2004	10.0 g/100g to 50.0 g/100g
		Total Residue	IS 6608: 2004	5 g/100g to 30.0 g/100g
		pH	IS 6608: 2004	1.0 to 14.0
(vi)	Tooth Paste/Tooth Powder/Skin Powder	Matter insoluble in boiling water	IS 5339: 2004	50.0 g/100g to 99.0 g/100g
		Arsenic	IS 6356:2001 RA 2006	Qualitative
		Arsenic	IS 5383:2006	Qualitative
		Arsenic	IS 5339:2004	Qualitative
		Arsenic	IS 3959:2004	Qualitative
		Fineness/Sieve analysis	IS 3959:2004	0.25 g/100 to 10.0 g/100g
		Fineness/Sieve analysis	IS 5339:2004	0.25 g/100g to 10.0 g/100g
		Fineness/Sieve analysis	IS 5383:2006	0.25 g/100g to 10.0 g/100g
		Fineness/Sieve analysis	IS 6356:2001 RA 20 2006	0.25 g/100g to 10.0 g/100g
		Hard and sharp edged particle	International Journal of Advances in Pharmacy, Biology & Chemistry	Qualitative
		Hard and sharp edged particle	IS 6356: 2006	Qualitative
		Matter insoluble in boiling water	IS 5339: 2004	50.0 g/100g to 99.0 g/100g
		pH of aqueous solution	IS 5339:2004	1 to 14

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		pH of aqueous solution	IS 6356:2001 RA 20 2006	1 to 14
		pH of aqueous solution	IS 5383:2006	1 to 14
		pH of aqueous solution	IS 3959:2004	1 to 14
		Spreadability	International Journal of Advances in Pharmacy, Biology & Chemistry	0cm to 8cm
		Stability	IS 6356:2001; RA 2006	Qualitative
		Heavy metals (Lead)	IS 6356:2001 RA 2006	Qualitative
		Heavy metals (Lead)	IS 5383:2006	Qualitative
		Heavy metals (Lead)	IS 5339:2004	Qualitative
		Heavy metals (Lead)	IS 3959:2004	Qualitative
		Moisture & volatiles	IS 5383:2006	1.0 to 25.0 g/100g
		Moisture & volatiles	IS 5339:2004	1.0 to 25.0 g/100g
		Moisture & volatiles	IS 3959:2004	1.0 to 25.0 g/100g
<b>2.</b>	<b>Herbal based cosmetics</b>			
(i)	Hair dyes-powder	Active matter as PPD	IS 10350: 1999	1 g/100 to 10.0 g/100
		pH of 5% solution	IS 10350: 1999	1.0 to 14.0
<b>V.</b>	<b>DRUGS &amp; PHARMACEUTICALS</b>			
<b>1.</b>	<b>AYUSH and Homeopathic Product</b>			
(i)	AYUSH and Homeopathic Product (Raw & Finished) (General test)	Arsenic	USP 2014 Chapter 2232 P.no.1345: 2014 ARL/BL/CHE/STP-0024, 2018	1.0 mg/kg to 100.0 mg/kg
		Cadmium	USP 2014 Chapter 2232 P.no.1345: 2014 ARL/BL/CHE/STP-0024, 2018	1.0 mg/kg to 100.0 mg/kg

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		Chromium	USP 2014 Chapter 2232 P.no.1345: 2014 ARL/BL/CHE/STP-0024, 2018	1.0 mg/kg to 100.0 mg/kg
		Lead	USP 2014 Chapter 2232 P.no.1345: 2014 ARL/BL/CHE/STP-0024 ,2018	1.0 mg/kg to 100.0 mg/kg
		Mercury	USP 2014 Chapter 2232 P.no.1345: 2014 ARL/BL/CHE/STP-0024, 2018	1.0 mg/kg to 100.0 mg/kg
<b>2.</b>	<b>Pharmaceutical Aid (Raw material except API)</b>			
(i)	Amoxicillin Capsules I. P	Uniformity of weight / Fill	IP 2018 Vol I, 2.5.3 P.no.308: 2018	± 20% of average fill
(ii)	AYUSH and Homeopathic Product (Raw & Finished) (General Test)	Alcohol soluble extractives	API (Part-I) Volume-IV 2004 Appendix 2.2.6	1 g/100g to 50 g/100g
		Fixed Oil Content / Ether soluble extract	API (Part-I) Volume-IV 2004 Appendix 2.2.8: 2004: 2004	0.1 g/100g to 20 g/100g
		Volatile Oil	API (Part-I) Volume-IV 2004 Appendix 2.2.10: 2004	0.5 g/100g to 10 g/100g
		Water soluble ash	API (Part-I) Volume-IV 2004 Appendix 2.2.5: 2004	0.05 g/100g to 10 g/100g
		Acid insoluble ash	API (Part-I) Volume -IV 2004 Appendix 2.2.4: 2004	0.1 g/100g to 30 g/100g
		Ash	API (Part-I) Volume -IV 2004 Appendix 2.2.3: 2004	0.1 g/100g to 100 g/100g
		Foreign Matter	API (Part-I) Volume -IV 2004 Appendix 2.2.2: 2004	0.1 g/100g to 2 g/100g
		Loss on drying	API (Part-I) Volume-IV 2004 Appendix 2.2.9: 2004	1 g/100g to 20 g/100g

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		Water soluble extractives	API (Part-I) Volume -IV 2004 Appendix 2.2.7: 2004	1 g/100g to 40 g/100g
(iii)	Drug intermediates and raw materials	Description	IP 2018	Qualitative
		Loss on Drying	IP 2018 Vol I, 2.4.19 P.no.208: 2018	0.05 g/100g to 10 g/100g
		pH	IP 2018 Vol I, 2.4.24 P.no.215: 2018	1 to 14
		Specific Optical Rotation	IP 2018 Vol I, 2.4.22 P.no.212: 2018	-360° to 360°
		Water by K.F.	IP 2018 Vol I, 2.3.43 P.no.156: 2018	1 g/100g to 50 g/100g
(iv)	Specific Drug: Paracetamol syrup IP	Related Substances	IP 2018 Vol III, P.no.2857: 2018	Qualitative
		Weight per mL	IP 2018 Vol I, 2.4.29 Method A, P.no.256: 2018	0.5 g/mL to 5 g/mL
(v)	Specific Drug: Paracetamol Tablets IP	Disintegration test	IP 2018 Vol I, 2.5.1 P.no.299: 2018	30 Seconds to 180 minutes
(vi)	Pharmaceutical formulation (Finished products) (Official in the Indian Pharmacopeia 2014)	Average Weight / Average Filled Weight	IP: 2018	As per pharmacopoeias & specification
		Disintegration Test	IP 2018 Vol I, 2.5.1 P.no.299: 2018	30 Seconds to 180 minutes
		pH	IP 2018 Vol I, 2.4.24 P.no.215: 2018	1 to 14
		Specific Optical rotation	IP 2018 Vol I, 2.4.22 P.no.212: 2018	-360° to 360°
		Uniformity of weight	IP 2018 Vol I, 2.5.3 P.no.308: 2018	± 20% of average weight
		Water by K.F.	IP 2018 Vol I, 2.3.43 P.no.156: 2018	1 g/100g to 50 g/100g
		Weight per mL	IP 2018 Vol I, 2.4.29 Method A, P.no.256: 2018	0.5 g/mL to 5 g/mL

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VI.	<b>SOAP, DETERGENT &amp; TOILETRIES</b>			
1.	<b>Soaps</b>			
(i)	Shaving soap / Laundry Soaps / Toilet Soap / Liquid Toilet Soap / Antibacterial toilet soap (Solid cake & liquid) / Bathing Bar	Free caustic alkali as Sodium Hydroxide, K <sub>2</sub> O	IS 4199: 2001	0.01 g/100g to 0.05 g/100g
		Active ingredient	IS 286:1978 RA 20 2008	10 g/100g to 50 g/100g
		Chlorides (as NaCl)	IS 286:1978 RA 20 2008	0.1 g/100g to 5.0 g/100g
		Chlorides (as NaCl)	IS 285:1992 RA 20 2011	0.1 g/100g to 5.0 g/100g
		Chlorides (as NaCl)	IS 2888: 2004	0.1 g/100g to 5.0 g/100g
		Chlorides (as NaCl)	IS 5784: 2001	0.1 g/100g to 5.0 g/100g
		Cleaning efficiency	IS 13498:1997 RA 20 2011	Qualitative
		Cleaning efficiency	IS 286:1978, RA 20 2008	Qualitative
		Foaming power	IS 286:1978 RA 2008	100 mL to 200 mL
		Foaming power	IS 9740:1981 RA 2001	100mL to 200mL
		Free caustic alkali as Sodium Hydroxide, K <sub>2</sub> O	IS 11479 (Part 1 & 2): 2001	0.01 g/100g to 0.05 g/100g
		Free caustic alkali as Sodium Hydroxide, K <sub>2</sub> O	IS 285:1992 RA 2011	0.01 g/100g to 0.05 g/100g
		Free caustic alkali as Sodium Hydroxide, K <sub>2</sub> O	IS 286:1978 RA 2008	0.01 g/100g to 0.05 g/100g
		Free caustic alkali as Sodium Hydroxide, K <sub>2</sub> O	IS 2888: 2004	0.01 g/100g to 0.05 g/100g
		Free caustic alkali as Sodium Hydroxide, K <sub>2</sub> O	IS 5784: 2001	0.01 g/100g to 0.05 g/100g
		Free caustic alkali as Sodium Hydroxide, K <sub>2</sub> O	IS 4199:2001	0.01 g/100g to 0.05 g/100g
	Free from Cracking	IS 13498:1997 RA 2011	0.5mm to 10mm	



**Laboratory** Auriga Research Private Limited, No.136, 6<sup>th</sup> Cross, 2<sup>nd</sup> Stage,  
Yeshwanthpur Industrial Suburb, Bangalore, Karnataka

**Accreditation Standard** ISO/IEC 17025: 2017

**Certificate Number** TC-5496

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**Validity** 31.03.2019 to 30.03.2021

Last Amended on --

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Free from Cracking	IS 286:1978 RA 2008	0.5mm to 10mm
		Free from Grittiness	IS 13498:1997 RA 20114	Qualitative
		Free from Grittiness	IS 286:1978 RA 2008	Qualitative
		Matter insoluble in alcohols	IS 11479 (Part 1 & 2): 2001	0.1 g/100g to 50 g/100g
		Matter insoluble in alcohols	IS 285:1992 RA 2011	0.1 g/100g to 50 g/100g
		Matter insoluble in alcohols	IS 286:1978 RA 2008	0.1 g/100g to 50 g/100g
		Matter insoluble in alcohols	IS 2888: 2004	0.1 g/100g to 50 g/100g
		Matter insoluble in alcohols	IS 5784: 2001	0.1 g/100g to 50 g/100g
		Moistures & volatiles	IS 5784: 2001	1.0 g/100g to 50.0 g/100g
		Rosin acids	IS 11479 (Part 1) : 2001	0.1 g/100g to 3 g/100g
		Rosin acids	IS 285:1992 RA 2011	0.1 g/100g to 3 g/100g
		Rosin acids	IS 2888: 2004	0.1 g/100g to 3 g/100g
		Rosin acids	IS 5784: 2001	0.1 g/100g to 3 g/100g
		Synthetic detergents	IS 11479 (Part 2): 2001	0.1 g/100g to 20.0 g/100g
		Synthetic detergents	IS 4955: 2001	0.1 g/100g to 20.0 g/100g
		Total fatty matter	IS 11479 (Part 1 & 2): 2001	30 g/100g to 90.0 g/100g
		Total fatty matter	IS 13498:1997 RA 2011	30 g/100g to 90.0 g/100g
		Total fatty matter	IS 285:1992 RA 2011	30 g/100g to 90.0 g/100g
		Total fatty matter	IS 286:1978 RA 2008	30 g/100g to 90.0 g/100g
		Total fatty matter	IS 4199: 2001	30 g/100g to 90.0 g/100g
		Total fatty matter	IS 5784: 2001	30 g/100g to 90.0 g/100g