

Laboratory Public Health Laboratory, 1st Floor, Navrangpura Urban Health Center, Off. C.G. Road, Ahmedabad, Gujarat

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7467 (in lieu of T-3043)

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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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CHEMICAL TESTING

I.	FOOD & AGRICULTURAL PREODUCTS			
1.	Milk & Dairy Products			
A.	Milk, Cream, Evaporated Milk	Total Solids	IS:12333:2017/ FSSAI Manual of Methods of Analysis of Food-Milk and Milk Products 1.3.3	5 g/100g to 50 g/100g
B.	Cheese, Processed Cheese	Moisture	IS 2785:1979 (RA 2011) Appendix-A/ FSSAI Manual of Methods of Analysis of Food-Milk and Milk Products 6.2 (5.2)	20 g/100g to 50 g/100g
		Fat	IS 2785:1979 (RA 2011) Appendix-B/ FSSAI Manual of Methods of Analysis of Food-Milk and Milk Products 6.3 (5.3)	20 g/100g to 50 g/100g
C.	Paneer	Moisture	IS 10484:1983 (RA 2014) Appendix-A/ FSSAI Manual of Methods of Analysis of Food-Milk and Milk Products 5.2	20 g/100g to 60 g/100g
		Fat	IS 10484:1983 (RA 2014) Appendix-B/ FSSAI Manual of Methods of Analysis of Food-Milk and Milk Products 5.3	15 g/100g to 60 g/100g
D.	Khoya (Mavo)	Moisture	IS 10484:1983 (RA 2014) Appendix-A/ FSSAI Manual of Methods of Analysis of Food-Milk and Milk Products 11.2 (5.2)	20 g/100g to 60 g/100g

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		Fat	IS 2785:1979 (RA 2011) Appendix-B/ FSSAI Manual of Methods of Analysis of Food-Milk and Milk Products 11.3.2 (5.3)	1 g/100g to 60 g/100g
		Test for Starch	IS 1479 (Part-1): 1960 (RA 2016) Clause 17.5/FSSAI Manual of Methods of Analysis of Food-Milk and Milk Products 11.4	Qualitative (Positive/Negative)
		Test for Sugar	IS 1479(Part-1):1960 (RA 2016) Clause 17.6/FSSAI Manual of Methods of Analysis of Food-Milk and Milk Products 11.5	Qualitative (Positive/Negative)
E.	Milk Powder	Fat	IS 11721: 2013 (Clause 3.1/FSSAI Manual of Methods of Analysis of Food-Milk and Milk Products 10.3	0.2 g/100g to 30 g/100g
F.	Milk	Test for Urea	IS 1479(Part 1): 2016 Cl 15.10.2/FSSAI Manual of Methods of Analysis of Food-Milk and Milk Products 1.2.4	Qualitative (Positive/Negative)
		Test for Carbonate	IS 1479(Part 1): 2016 Cl. 17.1/ FSSAI Manual of Methods of Analysis of Food-Milk and Milk Products 1.2.11.1	Qualitative (Positive/Negative)
		Test for Sugar	IS 1479(Part 1): 2016 Cl. 15.7/ FSSAI Manual of Methods of Analysis of Food-Milk and Milk Products 1.2.1.1	Qualitative (Positive/Negative)
		Test for Starch	IS 1479(Part 1): 2016 Cl. 15.6/FSSAI Manual of Methods of Analysis of Food-Milk and Milk Products 1.2.2	Qualitative (Positive/Negative)

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2.	Edible Oil and Fats			
A.	Edible Oils and Ghee	Baudouin Test	IS 548(Part II): 1976 (RA 2010) Clause 6/ FSSAI Manual of Methods of Analysis of Foods-Oil and Fats Section 15	Qualitative (Positive/Negative at 1% Level)
		Added Colour Matter	FSSAI Manual of Methods of Analysis of Foods-Oil and Fats-Section 39.5	Qualitative (Present/Absent)
		Moisture	IS 548(Part I): 1964 (RA 2015) Clause 5/ FSSAI Manual of Methods of Analysis of Foods-Oil and Fats-Section 3.0	0.1 g/100g to 5 g/100g
		Free fatty acid as oleic acid	IS 548(Part I): 1964 (RA 2015) Clause 7/ FSSAI Manual of Methods of Analysis of Foods-Oil and Fats-Section 11.8	0.1 g/100g to 7 g/100g
		Acid value	IS 548(Part I): 1964 (RA 2015) Clause 7/ FSSAI Manual of Methods of Analysis of Foods-Oil and Fats-Section 11	0.2 to 14
		B.R. value	IS 548(Part I): 1964 (RA 2015) Clause 10/ FSSAI Manual of Methods of Analysis of Foods-Oil and Fats-Section 5	30 to 70
		Saponification value	IS 548(Part I): 1964 (RA 2015) Clause 15/ FSSAI Manual of Methods of Analysis of Foods-Oil and Fats-Section 9	100 to 270

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		Iodine value	IS 548(Part I):1964 (RA 2015) Clause 14/ FSSAI Manual of Methods of Analysis of Foods-Oil and Fats-Section 12	7.5 to 10.0 for coconut oil and 50 to 150 for other edible oils
		Unsaponifiable matter	IS 548(Part I):1964 (RA 2015) Clause 8/ FSSAI Manual of Methods of Analysis of Foods-Oil and Fats-Section 10	0.1 g/100g to 5 g/100g
		Bellier Test°C	IS 548(Part II):1976 (RA 2010) Clause 13/ FSSAI Manual of Methods of Analysis of Foods-Oil and Fats-Section 14	15 °C to 41°C
		Test for Mineral oil	IS 548(Part II):1976 (RA 2010) Clause 12/ FSSAI Manual of Methods of Analysis of Foods-Oil and Fats-Section 28.1 and 28.2	Qualitative (Positive/Negative)
		Test for Castor oil	IS 548(Part II):1976 (RA 2010) Clause 15/ FSSAI Manual of Methods of Analysis of Foods-Oil and Fats-Section 29	Qualitative (Positive/Negative)
		Test for Argemone oil	IS 548(Part II):1976 (RA 2010) Clause 10/ FSSAI Manual of Methods of Analysis of Foods-Oil and Fats-Section 30	Qualitative (Positive/Negative)
		Test for Cotton Seed oil (Halphan's test)	IS 548(Part II):1976 (RA 2010) Clause 07/ FSSAI Manual of Methods of Analysis of Foods-Oil and Fats-Section 16	Qualitative (Positive/Negative)

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		Cloud Point °C	FSSAI Manual of Methods of Analysis of Foods-Oil and Fats-Section 17	1 °C to 25 °C
		Polenske value	IS 548(Part I):1964 (RA 2015) Clause 19/ FSSAI Manual of Methods of Analysis of Foods-Oil and Fats-Section 13.8	5 to 20
		Reichert value	IS 548(Part I):1964 (RA 2015) Clause 18/ FSSAI Manual of Methods of Analysis of Foods-Oil and Fats-Section 13	15 to 35
3.	Fruit & Fruit Products			
A.	Fruit and Vegetable Products	Total Soluble Solid	IS 13815: 2009 (RA 2007)/FSSAI Manual of Methods of Analysis of Foods-Fruit and Vegetable Products-Section 1.6	1 g/100g to 40 g/100g
		Titration Acidity	IS 13844:2003 (RA 2008) Clause 7.2/ FSSAI Manual of Methods of Analysis of Foods-Fruit and Vegetable Products-Section 2.4	0.1 g/100g to 2.0 g/100g
		Added coloring matter	FSSAI Manual of Methods of Analysis of Foods – Food Additives-Section 4.0	Qualitative (Present/Absent)
4.	Cereals, pulses & Cereal Products			
A.	Besan	Moisture	IS 1009:1979 (RA 2015) Appendix A/ FSSAI Manual of Methods of Analysis of Foods-Cereal and Cereal Products-Section 8.1	0.1 g/100g to 15 g/100g

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		Total Ash	IS 1009:1979 (RA 2015) Appendix B/ FSSAI Manual of Methods of Analysis of Foods-Cereal and Cereal Products-Section 8.2	0.1 g/100g to 20 g/100g
		Ash insoluble in dil. HCl	IS 1009:1979 (RA 2015) Appendix C/FSSAI Manual of Methods of Analysis of Foods-Cereal and Cereal Products-Section 8.3	0.1 g/100g to 10 g/100g
B.	Maida	Moisture	IS 1009:1979 (RA 2015) Appendix A/ FSSAI Manual of Methods of Analysis of Foods-Cereal and Cereal Products-Section 8.1	0.1 g/100g to 20 g/100g
		Total Ash	IS 1009:1979 (RA 2015) Appendix B/ FSSAI Manual of Methods of Analysis of Foods-Cereal and Cereal Products-Section 8.2	0.1 g/100g to 20 g/100g
		Ash insoluble in dil. HCl	IS 1009:1979 (RA 2015) Appendix C/ FSSAI Manual of Methods of Analysis of Foods-Cereal and Cereal Products-Section 8.3	0.1 g/100g to 10 g/100g
C.	Custard Powder	Salt	IS 4706 (Part 2) :1978 (RA 2015) Cl. 6/ FSSAI Manual of Methods of Analysis of Foods-Cereal and Cereal Products-Section 16.2	0.1 g/100g to 10 g/100g
		Moisture	IS 4706 (Part 2) :1978 (RA 2015) Cl. 4.2/ FSSAI Manual of Methods of Analysis of Foods-Cereal and Cereal Products-Section 16.1	0.1 g/100g to 20 g/100g

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		Total Ash excluding added Common Salt (ODB)	IS 4706 (Part 2) :1978 (RA 2015) Cl.6/ FSSAI Manual of Methods of Analysis of Foods-Cereal and Cereal Products-Section 16.2	0.1 g/100g to 20 g/100g
		Ash insoluble in dil HCl (ODB)	IS 4706 (Part 2) :1978 (RA 2015) Cl. 8	0.1 g/100g to 10 g/100g
5.	Bakery & Confectionary Products			
A.	Biscuits	Moisture	IS 1011:2002 Annex B/ FSSAI Manual of Methods of Analysis of Foods-Cereal and Cereal Products-Section 14.3	0.1 g/100g to 25 g/100g
		Ash insoluble in dil. HCl	IS 1011:2002 Annex C/FSSAI Manual of Methods of Analysis of Foods-Cereal and Cereal Products-Section 14.4	0.1 g/100g to 5 g/100g
		Acidity of Extracted Fat	IS 1011:2000 Annex D/ FSSAI Manual of Methods of Analysis of Foods-Cereal and Cereal Products-Section 14.5	0.01 g/100g to 7.5 g/100g
B.	Sugar and sugar based Confectionary-Hard boiled confectionary	Sulphated Ash	IS 6287:1985 (RA 2010) Edition 2.1 (2002-05) Cl. 6	0.1 g/100g to 5 g/100g
		Ash insoluble in dil HCl	IS 6287:1985 (RA 2010) Edition 2.1 (2002-05) Cl.7	0.05 g/100g to 5 g/100g
C.	Milk Toffee and Butter Toffee	Fat (ODB)	IS 6287:1985 (RA 2010) Edition 2.1 (2002-05) Cl.10	0.5 g/100g to 15 g/100g
6.	Herbs, Spices & Condiments			
A.	Spices and condiments (Whole, Powder & Mix Masala)	Extraneous/Foreign Matter	IS:1797-2017 Clause : 4/FSSAI Manual of Methods of Analysis of Foods-Spices and Condiments-Section 2.0	Qualitative (Positive/Negative)

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		Live and Dead Insects	IS 6261:1971 (RA 2015) Clause : 4	Qualitative (Positive/Negative)
		Moisture	IS:1797-2017 Clause 9/FSSAI Manual of Methods of Analysis of Foods-Spices and Condiments-Section 3.0	0.1 g/100g to 20 g/100g
		Total Ash	IS:1797-2017 Clause 6/FSSAI Manual of Methods of Analysis of Foods-Spices and Condiments-Section 4.0	0.1 g/100g to 12 g/100g
		Acid insoluble ash	IS:1797-2017 Clause 8/FSSAI Manual of Methods of Analysis of Foods-Spices and Condiments-Section 5.0	0.05 g/100g to 2 g/100g
		Added coloring matter	FSSAI Manual of Methods of Analysis of Foods-Food Additives Section 4.0	Qualitative (Present/Absent)
		Alcoholic extract (Asafoetida & Compounded Asafoetida)	IS 7807-1975 (RA 2009) & USP 1936 Clause 6	1 g/100g to 50 g/100g
		Lead Chromate Test (in Turmeric)	IS 3576 : 2010 Clause : A-1	Qualitative (Positive/Negative)
B.	Chilly, Cumin, Mace, Mustard, Nutmeg, Pepper, Poppy Seed Curry Powder	Non Volatile Ether Extract	IS 1797-2017 Clause : 14/FSSAI Manual of Methods of Analysis of Foods-Spices and Condiments-Section 9.0	0.5 g/100g to 60 g/100g
C.	Iodised Salt	Moisture	IS 7224:2006 (RA 2010) Annexure: A	0.01 g/100g to 10 g/100g
		Iodine content	IS 7224:2006 (RA 2010) Annexure: H-3.2	0.01 mg/kg to 200 mg/kg
		Sodium Chloride	IS 7224:2006 (RA 2010) Annexure: D	1 g/100g to 100 g/100g

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		Water Soluble Matter	IS 7224:2006 (RA 2010) Annexure: E	0.01 g/100g to 15 g/100g
		Water Insoluble Matter	IS 7224:2006 (RA 2010) Annexure: C	0.01 g/100g to 10 g/100g
7.	Tea			
A.	Tea	Moisture	IS 13853:1994 (RA 2009)	1 g/100g to 15 g/100g
		Ash insoluble in dil. HCl	IS 13857:1993 (RA 2009)	0.1 g/100g to 2 g/100g
		Total Ash	IS 13854:1994 (RA 2009)	0.5 g/100g to 12 g/100g
		Ash soluble in boiling Water	IS 13855:1993 (RA 2009)	1 g/100g to 70 g/100g
		Alkalinity of Soluble Ash	IS 13856:1993 (RA 2009)	0.5 g/100g to 5 g/100g
		Water Extract	IS 13862:1999 (RA 2009)	5 g/100g to 50 g/100g
		Added coloring matter	FSSAI Manual of Methods of Analysis of Foods-Food Additives Section 4.0	Qualitative (Present/Absent)
8.	Others			
A.	Namkeen	Fat	IS 15271:2003 (RA 2013) Annexure: D	0.1 g/100g to 50 g/100g