

Laboratory Oil Laboratory, Department of Chemical Technology, University of Calcutta, 92, Acharya Prafulla Chandra Road, Kolkata, West Bengal

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6252 (in lieu of T-2640)

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Validity 07.09.2017 to 06.09.2019

Last Amended on 18.09.2017

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
CHEMICAL TESTING				
I.	FOOD & AGRICULTURAL PRODUCTS			
1.	Oils and Fats	Refractive index at 40° C	IS 548 (Part 1): 1964 (RA 2015)	1.422 to 1.489
		Refractive index at 50 °C for Palm Oil	IS 548 (Part 1): 1964 (RA 2015)	1.4491 to 1.4552
		Acid value	IS 548 (Part 1): 1964 (RA 2015)	0.1 to 10
		Iodine value	IS 548 (Part 1): 1964 (RA 2015)	5 to 250
		Saponification value	IS 548 (Part 1): 1964 (RA 2015)	100 to 250
		Unsaponifiable matter	IS 548 (Part 1): (RA 2015)	(0.2 g to 5 g)/100 g
		Peroxide Value	IS 548 (Part 1): 1964 (RA 2011)	(1 meq to 10 meq)/kg
		Flash Point	FSSAI Manual of Methods of Analysis of Foods Lab Manual 2 (Oils & Fats): 2015 Method: 6.1	150 °C to 300 °C
		Melting Point	IS 548 (Part 1):	15 °C to 40 °C
		BTT Test for groundnut oil	IS 548 (Part 2) :1976 (RA 2011)	20 °C to 45 °C
		Cloud point	IS 548 (Part 1): 1964 (RA 2011)	15 °C to 20 °C
		Moisture content	IS 548 (Part 1): 1964 (RA 2015)	(0.01 g to 5.0 g)/100 g
		Determination of Beta-carotene	FSSAI Lab Manual (Oils & Fats): (RA 2015) Method: 36	200 mg/kg to 600 mg/kg
		Test for cottonseed oil	IS 548 (Part 2): 1976 (RA 2015)	Qualitative (Present/Absent)

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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
		Test for Presence of Cottonseed oil	IS 548 (Part 2): 1976 (RA 2015)	(Present/Absent) (>0.5%)
		Test for Presence of Linseed oil	IS 548 (Part 2): 1976 (RA 2015)	(Present/Absent) (>1.0%)
		Test for Presence of Groundnut oil	IS 548 (Part 2) : 1976 (RA2015)	Qualitative (Present/Absent)
		Test for Presence of Sesame oil (Baudouin Test)	IS 548 (Part 2) : 1976 (RA2015)	Qualitative (Present/Absent)
		Test for Presence of added Colouring matter	IS 548 (Part 1) : 1976 (RA2015)	Qualitative (Present/Absent)
		Test for presence of Mineral Oil	IS 548 (Part 2) : 1976 (RA2015)	Qualitative (Present/Absent)
		Test for Presence of Castor Oil	IS 548 (Part 2) : 1976 (RA2015)	Qualitative (Present/Absent)
2.	Soyabean Oil	Determination of Phosphorous Content	FSSAI Lab Manual (Oils & Fats): 2005 Method 34.0	1 to 20 mg/10g
3.	Olive Oil	Test for Presence of Olive Promace Oil	FSSAI Lab Manual (Oils & Fats): 2005 Method 25	Qualitative (Present/Absent)
		Test for Presence of Semi Siccative Oil	FSSAI Lab Manual 2(Oils & Fats): 2005 Method 26.0	Qualitative (Present/Absent)
		Test for Presence of Tri-ortho Cresylphosphate By TLC	FSSAI Lab Manual 2 (Oils & Fats): 2005 Method 33.0	Qualitative (Present/Absent)