

विश्लेषणात्मक रिपोर्ट Analytical Report



TC-6381

Lab Ref. No.: N014426/

Issued to: Ahir Nitin

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ULR No. : TC638123000003220F

Report number: CALF-099135

Sample receipt date: 14 Feb 2023

Report date: 10 Mar 2023

Booking ID: BID-037448

Customer request number: Dated: 01.02.2023

Date of completion of test: 24 Feb 2023

Sample Information:

1. Name of sample: Sesame Oil

7. Conditions of sample: Properly Sealed

2. Customer sample code: NA

8. Additional information: NA

3. Batch number: NA

4. Manufacturing date: NA

5. Expiry: NA

6. Additional remarks: Sesame Oil

Test Results

1 Chemical

1.1 Food & Agricultural products (except Human Milk)

Sr. No	Parameters	Results	Specification FSSAI requirement	Limit of quantification	Test Method	
1	Argemone oil test	As Such Basis	Negative	Negative	Method-30, Manual for analysis of Oils and Fats, FSSAI-2016	
2	Peroxide value	mEq Oxygen / kg	As Such Basis	1.421	10.000 (Max.)	Method 38.1 FSSAI Oil
3	Free fatty acid (oleic acid)	%	As Such Basis	1.879	NA	Method 11.0 FSSAI Manual for Oils and Fats
4	Colour	Y + 5 R in 1/2"cell	As Such Basis	Under Analysis	NA	Method-7.0, Manual for analysis of Oils and Fats, FSSAI-2016

Page 1 of 4 - CALF-099135

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विश्लेषणात्मक रिपोर्ट Analytical Report



5	Taste and flavor		As Such Basis	Free from off Odour	Free from off odour	-	Clause 2.2.1 of FSS (Food Products Standards and Food Additives) Regulations, 2011
6	Detection of Castor Oil		As Such Basis	Negative	Negative	-	IS 548 (Part 2): 1976
7	Cottonseed Oil Test		As Such Basis	Negative	Negative	-	Method-16, Manual for analysis of Oils and Fats, FSSAI-2016
8	Unsaponifiable Matter	%	As Such Basis	0.772	1.500 (Max.)	-	Method 9.2 FSSAI
9	Moisture	%	As Such Basis	Below limit of quantification	NA	0.100	Method 3.0 FSSAI Manual for analysis of Oils and Fats
10	Insoluble Impurities	%	As Such Basis	Below limit of quantification	NIL	0.050	IS 548 (Part 1): 1964
11	Arachidic acid (C20:0)	%	As Such Basis	0.783		0.050	AOAC 996.06 21st edition 2019 by GC-FID
12	Arachidonic acid (C20:4n6)	%	As Such Basis	Below limit of quantification		0.050	AOAC 996.06 21st edition 2019 by GC-FID
13	Behenic acid (C22:0)	%	As Such Basis	0.543		0.050	AOAC 996.06 21st edition 2019 by GC-FID
14	Butyric acid (C4:0)	%	As Such Basis	Below limit of quantification		0.050	AOAC 996.06 21st edition 2019 by GC-FID
15	Capric acid (C10:0)	%	As Such Basis	Below limit of quantification		0.050	AOAC 996.06 21st edition 2019 by GC-FID
16	Caproic acid (C6:0)	%	As Such Basis	Below limit of quantification		0.050	AOAC 996.06 21st edition 2019 by GC-FID
17	Caprylic acid (C8:0)	%	As Such Basis	Below limit of quantification		0.050	AOAC 996.06 21st edition 2019 by GC-FID
18	Cis-10-Heptadecenoic acid (C17:1)	%	As Such Basis	Below limit of quantification		0.050	AOAC 996.06 21st edition 2019 by GC-FID
19	Cis-10-Pentadecenoic acid (C15:1)	%	As Such Basis	Below limit of quantification		0.050	AOAC 996.06 21st edition 2019 by GC-FID
20	cis-11,14, 17-Eicosatrienoic acid (C20:3n3)	%	As Such Basis	Below limit of quantification		0.050	AOAC 996.06 21st edition 2019 by GC-FID
21	Cis-11,14-Eicosadienoic acid (C20:2)	%	As Such Basis	Below limit of quantification		0.050	AOAC 996.06 21st edition 2019 by GC-FID

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विश्लेषणात्मक रिपोर्ट Analytical Report



22	Cis-11-Eicosenoic acid (C20:1)	%	As Such Basis	0.308	0.050	AOAC 996.06 21st edition 2019 by GC-FID
23	Cis-13,16-Docosadienoic acid (C22:2)	%	As Such Basis	Below limit of quantification	0.050	AOAC 996.06 21st edition 2019 by GC-FID
24	cis-4,7,10,13,16,19-Docosahexaenoic acid (C22:6n3)	%	As Such Basis	Below limit of quantification	0.050	AOAC 996.06 21st edition 2019 by GC-FID
25	Cis-5,8,11,14,17-Eicosapentaenoic acid (C20:5n3)	%	As Such Basis	Below limit of quantification	0.050	AOAC 996.06 21st edition 2019 by GC-FID
26	Cis-8, 11,14-Eicosatrienoic acid (C20:3n6)	%	As Such Basis	Below limit of quantification	0.050	AOAC 996.06 21st edition 2019 by GC-FID
27	Elaidic acid (C18:1n9t)	%	As Such Basis	Below limit of quantification	0.050	AOAC 996.06 21st edition 2019 by GC-FID
28	Erucic acid (C22:1n9)	%	As Such Basis	Below limit of quantification	0.050	AOAC 996.06 21st edition 2019 by GC-FID
29	Heneicosanoic acid (C21:0)	%	As Such Basis	Below limit of quantification	0.050	AOAC 996.06 21st edition 2019 by GC-FID
30	Heptadecanoic acid(C17:0)	%	As Such Basis	0.065	0.050	AOAC 996.06 21st edition 2019 by GC-FID
31	Lauric acid (C12:0)	%	As Such Basis	Below limit of quantification	0.050	AOAC 996.06 21st edition 2019 by GC-FID
32	Lignoceric acid (C24:0)	%	As Such Basis	0.276	0.050	AOAC 996.06 21st edition 2019 by GC-FID
33	Linoleic acid (C18:2n6c)	%	As Such Basis	37.821	0.050	AOAC 996.06 21st edition 2019 by GC-FID
34	Linolelaidic acid (C18:2n6t)	%	As Such Basis	Below limit of quantification	0.050	AOAC 996.06 21st edition 2019 by GC-FID
35	Linolenic acid (C18:3n3)	%	As Such Basis	0.252	0.050	AOAC 996.06 21st edition 2019 by GC-FID
36	Myristic acid (C14:0)	%	As Such Basis	Below limit of quantification	0.050	AOAC 996.06 21st edition 2019 by GC-FID
37	Myristoleic acid (C14:1)	%	As Such Basis	Below limit of quantification	0.050	AOAC 996.06 21st edition 2019 by GC-FID

विश्लेषणात्मक रिपोर्ट Analytical Report




38	Nervonic acid (C24:1)	%	As Such Basis	Below limit of quantification	0.050	AOAC 996.06 21st edition 2019 by GC-FID
39	Oleic acid (C18:1n9c)	%	As Such Basis	43.908	0.050	AOAC 996.06 21st edition 2019 by GC-FID
40	Palmitic acid (C16:0)	%	As Such Basis	10.205	0.050	AOAC 996.06 21st edition 2019 by GC-FID
41	Palmitoleic acid (C16:1)	%	As Such Basis	0.134	0.050	AOAC 996.06 21st edition 2019 by GC-FID
42	Pentadecanoic acid (C15:0)	%	As Such Basis	Below limit of quantification	0.050	AOAC 996.06 21st edition 2019 by GC-FID
43	r-Linolenic acid (C18:3n6)	%	As Such Basis	Below limit of quantification	0.050	AOAC 996.06 21st edition 2019 by GC-FID
44	Stearic acid (C18:0)	%	As Such Basis	5.582	0.050	AOAC 996.06 21st edition 2019 by GC-FID
45	Tricosanoic acid (C23:0)	%	As Such Basis	Below limit of quantification	0.050	AOAC 996.06 21st edition 2019 by GC-FID
46	Tridecanoic acid (C13:0)	%	As Such Basis	Below limit of quantification	0.050	AOAC 996.06 21st edition 2019 by GC-FID
47	Undecanoic acid (C11:0)	%	As Such Basis	Below limit of quantification	0.050	AOAC 996.06 21st edition 2019 by GC-FID

Analyst Remark

"Results of different individual or category of fatty acids are calculated based upon peak area of individual fatty acids and combining them respectively. FAME mixture of 37 fatty acids is used for identification."

V.No : M

End of test report



Authorized Signatory
(Chemical)

स्वती पाटील / Swati Patil

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