



विश्लेषणात्मक रिपोर्ट Analytical Report



TC-6381

Lab Ref. No.: N014423/

Issued to: Ahir Nitin

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ULR No. : TC638123000003219F

Report number: CALF-099134

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: | Groundnut 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: | Groundnut Oil | | |

Test Results

1 Chemical

1.1 Food & Agricultural products (except Human Milk)

Sr. No	Parameters	Results	Specification FSSAI Requirements	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	Colour	Y + 5 R As Such Basis in 1/2"cell Under Analysis	NA	-	Method-7.0, Manual for analysis of Oils and Fats, FSSAI-2016
3	Cottonseed Oil Test	As Such Basis Negative	Negative	-	Method-16, Manual for analysis of Oils and Fats, FSSAI-2016
4	Detection of Castor Oil	As Such Basis Negative	Negative	-	IS 548 (Part 2): 1976

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Note : 1) Samples are not drawn by CALF laboratory, unless specified in report. 2) Please turn over leaf for terms & conditions.

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5	Free fatty acid (oleic acid)	%	As Such Basis	1.267	NA	-	Method 11.0 FSSAI Manual for Oils and Fats
6	Insoluble Impurities	%	As Such Basis	Below limit of quantification	Nil	0.050	IS 548 (Part 1): 1964
7	Moisture	%	As Such Basis	Below limit of quantification	NA	0.100	Method 9.2 FSSAI Oil
8	Peroxide value	mEq Oxygen / kg	As Such Basis	2.818	10.000 (Max.)	-	Manual 38.1 FSSAI Oil
9	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
10	Unsaponifiable Matter	%	As Such Basis	0.346	1.000 (Max.)	-	Method-10.0, Manual for analysis of Oils and Fats, FSSAI-2016
11	Arachidic acid (C20:0)	%	As Such Basis	1.296	1.000 - 4.000	0.050	AOAC 996.06 21st edition 2019 by GC-FID
12	Behenic acid (C22:0)	%	As Such Basis	2.205	1.500 - 4.500	0.050	AOAC 996.06 21st edition 2019 by GC-FID
13	Capric acid (C10:0)	%	As Such Basis	Below limit of quantification	ND	0.050	AOAC 996.06 21st edition 2019 by GC-FID
14	Caproic acid (C6:0)	%	As Such Basis	Below limit of quantification	ND	0.050	AOAC 996.06 21st edition 2019 by GC-FID
15	Caprylic acid (C8:0)	%	As Such Basis	Below limit of quantification	ND	0.050	AOAC 996.06 21st edition 2019 by GC-FID
16	Cis-10-Heptadecenoic acid (C17:1)	%	As Such Basis	Below limit of quantification	0.100 (Max.)	0.050	AOAC 996.06 21st edition 2019 by GC-FID
17	Cis-11,14-Eicosadienoic acid (C20:2)	%	As Such Basis	Below limit of quantification	ND	0.050	AOAC 996.06 21st edition 2019 by GC-FID
18	Cis-11-Eicosenoic acid (C20:1)	%	As Such Basis	0.968	0.700 - 1.700	0.050	AOAC 996.06 21st edition 2019 by GC-FID
19	Cis-13,16-Docosadienoic acid (C22:2)	%	As Such Basis	Below limit of quantification	ND	0.050	AOAC 996.06 21st edition 2019 by GC-FID
20	Erucic acid (C22:1n9)	%	As Such Basis	0.057	0.300 (Max.)	0.050	AOAC 996.06 21st edition 2019 by GC-FID
21	Heptadecanoic acid(C17:0)	%	As Such Basis	0.050	0.100 (Max.)	0.050	AOAC 996.06 21st edition 2019 by GC-FID

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							FID
22	Lauric acid (C12:0)	%	As Such Basis	Below limit of quantification	1.000 (Max.)	0.050	AOAC 996.06 21st edition 2019 by GC-FID
23	Lignoceric acid (C24:0)	%	As Such Basis	0.945	0.500 - 2.500	0.050	AOAC 996.06 21st edition 2019 by GC-FID
24	Linoleic acid (C18:2n6c)	%	As Such Basis	23.337		0.050	AOAC 996.06 21st edition 2019 by GC-FID
25	Linolenic acid (C18:3n3)	%	As Such Basis	0.068	0.300 (Max.)	0.050	AOAC 996.06 21st edition 2019 by GC-FID
26	Myristic acid (C14:0)	%	As Such Basis	0.093	0.500 (Max.)	0.050	AOAC 996.06 21st edition 2019 by GC-FID
27	Nervonic acid (C24:1)	%	As Such Basis	Below limit of quantification	0.300 (Max.)	0.050	AOAC 996.06 21st edition 2019 by GC-FID
28	Oleic acid (C18:1n9c)	%	As Such Basis	56.610	35.000 - 69.000	0.050	AOAC 996.06 21st edition 2019 by GC-FID
29	Palmitic acid (C16:0)	%	As Such Basis	10.911	6.000 - 14.000	0.050	AOAC 996.06 21st edition 2019 by GC-FID
30	Palmitoleic acid (C16:1)	%	As Such Basis	0.100	0.320 (Max.)	0.050	AOAC 996.06 21st edition 2019 by GC-FID
31	Stearic acid (C18:0)	%	As Such Basis	3.171	0.600 - 7.000	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)
स्वाती पाटील / Swati Patil