

ORIGINAL NOT NEGOTIABLE

Report Ref : 4012610983


NCML LABS

Test Report

ULR - TC-650726000002434F

Discipline : Chemical

Product Group : Food and Agricultural Products

Sub Group : Fats & Oils and Fat Emulsions

Issued To:

Issue Date : 14-Feb-2026

Client Reference : By TRF

Graze and Grow

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Sample Details:		
Sample ID	:	4012610983
Name of the Sample	:	Peanut Oil
Date of Receipt	:	23-Jan-2026
Job Ref. No.	:	TR/8848/25-26
Place of receipt / Lab	:	Gurgaon
Sample particulars	:	Peanut Oil , Sample Quantity : 500 ML
Sampling Details	:	Sample Not Drawn by us
Analysis Starting Date	:	23-Jan-2026
Analysis Completion Date	:	13-Feb-2026
Sample Condition	:	Fit for analysis

Test Results

S.No	Test Parameter	Unit of Measurement	Test Method	Specification	Test Result
Group : General Parameters					
1	Suspended or other foreign matter, separated water	-	FSSAI Manual of Methods	Absent	Absent
2	Added colouring matter or flavouring substances	-	FSSAI Manual of Methods	Absent	Absent
3	Cis-13,16-Docosadienoic acid(C22:2)	g/100g	AOAC 996.06	ND	BLQ (LOQ-0.1)
4	Fat	%	FSSAI Manual of Methods	Not Specified	99.84
5	Protein	%	IS 7219: 1973	Not Specified	BLQ(LOQ-0.1)
6	Test for argemone oil	-	FSSAI Manual of Methods	Negative	Negative
7	Carbohydrates	%	IS 1656 : 2022	Not Specified	BLQ(LOQ-0.1)
8	Cholesterol	mg/100g	AOAC 994.10	Not Specified	BLQ(LOQ-1.0)
9	Acid value	-	IS 548 (Part 1/Sec 2) : 2021	Max 6.0	0.81

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S.No	Test Parameter	Unit of Measurement	Test Method	Specification	Test Result
Group : General Parameters					
10	Butyro refractometer reading at 40°C	-	FSSAI Manual of Methods	54.0-57.1	55
11	Peroxide value	meq/kg	IS 548 (Part 1/Sec 2) : 2021	Max 10	3.06
12	Energy	Kcal/100g	CommGrade/L3-GG N-FOO-132	Not Specified	898.56
13	Iodine value	-	IS 548 (Part 1/Sec 2) : 2021	85 to 99	91.72
14	Rancidity	-	FSSAI Manual	Absent	Absent
15	Refractive Index at 40°C	-	FSSAI Manual of Methods	1.4620-1.4640	1.4626
16	Saponification Value	-	IS 548 (Part 1/Sec 2) : 2021	188 to 196	191.12
17	Unsaponifiable matter	%	IS 548 (Part 1/Sec 2) : 2021	Max 1.0	0.37
Group : Fatty Acids Profile					
18	Monounsaturated fattyacids	g/100g	AOAC 996.06	Not Specified	44.50
19	Polyunsaturated fatty acids	g/100g	AOAC 996.06	Not Specified	32.59
20	Saturated fatty acids	g/100g	AOAC 996.06	Not Specified	22.75
21	C6:0 (Caproic acid)	g/100g	AOAC 996.06	ND	BLQ (LOQ-0.1)
22	C8:0 (Caprylic acid)	g/100g	AOAC 996.06	ND	BLQ (LOQ-0.1)
23	C10:0 (Capric acid)	g/100g	AOAC 996.06	ND	BLQ (LOQ-0.1)
24	C12:0 (Lauric acid)	g/100g	AOAC 996.06	ND- 1.0	BLQ (LOQ-0.1)
25	C14:0 (Myristic acid)	g/100g	AOAC 996.06	ND- 0.5	BLQ (LOQ-0.1)
26	C16:0 (Palmitic acid)	g/100g	AOAC 996.06	6.0-14	13.312
27	C16:1 (Palmitoleic acid)	g/100g	AOAC 996.06	ND- 0.2	BLQ (LOQ-0.1)
28	C17:0 (Margaric acid)	g/100g	AOAC 996.06	ND- 0.1	BLQ (LOQ-0.1)
29	C17:1 (Cis -10 Heptadecanoic)	g/100g	AOAC 996.06	ND- 0.1	BLQ (LOQ-0.1)
30	C18:0 (Stearic acid)	g/100g	AOAC 996.06	0.6- 7.0	4.332
31	C18:1 (Oleic acid)	g/100g	AOAC 996.06	35.0- 69	43.706
32	C18:2 (Linoleic acid)	g/100g	AOAC 996.06	12.0- 43.0	32.590
33	C18:3 (Linolenic acid)	g/100g	AOAC 996.06	ND- 0.3	BLQ (LOQ-0.1)

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S.No	Test Parameter	Unit of Measurement	Test Method	Specification	Test Result
Group : Fatty Acids Profile					
34	C20:0 (Arachidic acid)	g/100g	AOAC 996.06	1.0- 4.0	1.650
35	C20:1 (Eicosenoic acid)	g/100g	AOAC 996.06	0.7- 1.7	0.796
36	C20:2 (Eicosadienoic)	g/100g	AOAC 996.06	ND	BLQ (LOQ-0.1)
37	C22:0 (Behenic acid)	g/100g	AOAC 996.06	1.5- 4.5	2.409
38	C22:1 (Erucic acid)	g/100g	AOAC 996.06	ND- 0.3	BLQ (LOQ-0.1)
39	C24:0 (Lignoceric acid)	g/100g	AOAC 996.06	0.5- 2.5	1.045
40	C24:1 (Nervonic acid)	g/100g	AOAC 996.06	ND- 0.3	BLQ (LOQ-0.1)
41	Trans Fatty acid (TFA)	g/100g	AOAC 996.06	Not Specified	BLQ(LOQ-0.1)
Group : Water Tests					
42	Appearance	-	CommGrade/L3-GG N-FOO-131	Shall be clear	Complies
43	Mineral oil	-	FSSAI Manual of Methods	Absent	Absent
Group : Metal Contaminants					
44	Sodium	mg/100g	CommGrade/L3-GG N-FOO-003	Not Specified	BLQ(LOQ-0.1)

Remarks

- 1.Sample complies with the requirements of Food Safety Standards Regulation 2011 with respect to above tested parameters (For specified parameters only).
- 2.Sample particulars are provided by customer.
- 3.Where ever applicable, the decision rule as per QSP 27 is applied to declare the statement of conformity to a specification or standard provided in the test report.
- 4.BLQ=Below limit of quantification, LOQ= Limit of quantification.
- 5.ND= Not detected.
- 6.This report cancels and supersede report no. 4012610983, dated: 04.01.2026 (parameter has been added on customer request).

Authorized By
Deepak Kumar
Technical Manager - Chemical

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----- End of the test report -----