

ORIGINAL NOT NEGOTIABLE

Report Ref : 4012610986


NCML LABS

Test Report

ULR - TC-650726000002603F

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	:	4012610986
Name of the Sample	:	Black Mustard Oil
Date of Receipt	:	23-Jan-2026
Job Ref. No.	:	TR/8851/25-26
Place of receipt / Lab	:	Gurgaon
Sample particulars	:	Black Mustard 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	Rancidity	-	FSSAI Manual of Methods	Absent	Absent
3	Added colouring matter or flavouring substances	-	FSSAI Manual of Methods	Absent	Absent
4	Appearance	-	CommGrade/L3-GG N-FOO-131	Shall be clear	Complies
5	Cis-13,16-Docosadienoic acid(C22:2)	g/100g	AOAC 996.06	ND-1.0	BLQ (LOQ-0.1)
6	Fat	%	FSSAI Manual of Methods	Not Specified	99.94
7	Protein	%	IS 7219: 1973	Not Specified	BLQ(LOQ-0.1)
8	Polybromide Test	-	FSSAI Manual methods of Oil and oil fats products	Negative	Negative

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S.No	Test Parameter	Unit of Measurement	Test Method	Specification	Test Result
Group : General Parameters					
9	Test for argemone oil	-	FSSAI Manual of Methods	Negative	Negative
10	Carbohydrates	%	IS 1656 : 2022	Not Specified	BLQ(LOQ-0.1)
11	Cholesterol	mg/100g	AOAC 994.10	Not Specified	BLQ(LOQ-1.0)
12	Acid value	-	IS 548 (Part 1/Sec 2) : 2021	Max 6.0	1.19
13	Butyro refractometer reading at 40°C	-	FSSAI Manual of Methods	58-60.5	59.6
14	Peroxide value	meq/kg	IS 548 (Part 1/Sec 2) : 2021	Max 10	2.98
15	Energy	Kcal/100g	CommGrade/L3-GG N-FOO-132	Not Specified	899.46
16	Total Polar Compound	%	TPC Meter	Max 15.0	3.5
17	Allyl isothiocyanate	%	IS 548 (Part 1/Sec 2) : 2021	Min 0.2	0.30
18	Iodine value	-	IS 548 (Part 1/Sec 2) : 2021	96-112	107.76
19	Refractive Index at 40°C	-	FSSAI Manual of Methods	1.4646-1.4662	1.4656
20	Saponification Value	-	IS 548 (Part 1/Sec 2) : 2021	168-177	171.74
21	Unsaponifiable matter	%	IS 548 (Part 1/Sec 2) : 2021	Max 1.2	0.39
Group : Fatty Acids Profile					
22	Monounsaturated fattyacids	g/100g	AOAC 996.06	Not Specified	63.01
23	Polyunsaturated fatty acids	g/100g	AOAC 996.06	Not Specified	29.11
24	Saturated fatty acids	g/100g	AOAC 996.06	Not Specified	7.82
25	C6:0 (Caproic acid)	g/100g	AOAC 996.06	ND	BLQ (LOQ-0.1)
26	C8:0 (Caprylic acid)	g/100g	AOAC 996.06	ND	BLQ (LOQ-0.1)
27	C10:0 (Capric acid)	g/100g	AOAC 996.06	ND	BLQ (LOQ-0.1)
28	C12:0 (Lauric acid)	g/100g	AOAC 996.06	ND	BLQ (LOQ-0.1)
29	C14:0 (Myristic acid)	g/100g	AOAC 996.06	ND-1.0	BLQ (LOQ-0.1)
30	C16:0 (Palmitic acid)	g/100g	AOAC 996.06	0.5-5.0	3.132
31	C16:1 (Palmitoleic acid)	g/100g	AOAC 996.06	ND-0.5	BLQ (LOQ-0.1)

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S.No	Test Parameter	Unit of Measurement	Test Method	Specification	Test Result
Group : Fatty Acids Profile					
32	C17:0 (Margaric acid)	g/100g	AOAC 996.06	ND	BLQ (LOQ-0.1)
33	C17:1 (Cis -10 Heptadecanoic)	g/100g	AOAC 996.06	ND	BLQ (LOQ-0.1)
34	C18:0 (Stearic acid)	g/100g	AOAC 996.06	0.5-2.0	1.884
35	C18:1 (Oleic acid)	g/100g	AOAC 996.06	8.0- 23.0	12.013
36	C18:2 (Linoleic acid)	g/100g	AOAC 996.06	10.0- 24.0	17.837
37	C18:3 (Linolenic acid)	g/100g	AOAC 996.06	6.0- 18.0	11.275
38	C20:0 (Arachidic acid)	g/100g	AOAC 996.06	ND-1.5	1.040
39	C20:1 (Eicosenoic acid)	g/100g	AOAC 996.06	5.0- 13.0	7.664
40	C20:2 (Eicosadienoic)	g/100g	AOAC 996.06	ND-1.0	BLQ (LOQ-0.1)
41	C22:0 (Behenic acid)	g/100g	AOAC 996.06	0.2-2.5	1.095
42	C22:1 (Erucic acid)	g/100g	AOAC 996.06	40.0- 58.0	41.512
43	C24:0 (Lignoceric acid)	g/100g	AOAC 996.06	ND-0.8	0.666
44	C24:1 (Nervonic acid)	g/100g	AOAC 996.06	0.5- 2.5	1.820
45	Trans Fatty acid (TFA)	g/100g	AOAC 996.06	Not Specified	BLQ(LOQ-0.1)
Group : Metal Contaminants					
46	Sodium	mg/100g	CommGrade/L3-GG N-FOO-003	Not Specified	BLQ(LOQ-0.1)
Group : Naturally Occurring Toxic Substances					
47	Hydrocyanic acid	-	FSSAI Manual of Methods	Absent	Absent

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. 4012610986, dated: 04.02.2026 (parameter has been added on customer request).

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Authorized By
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Technical Manager - Chemical

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