ORIGINAL NOT NEGOTIABLE

Report Ref : 4092610763

TC-6507

Test Report

ULR - TC-650726000013981F

Discipline : **Chemical**
Product Group : **Food and Agricultural Products**
Sub Group : **Fats & Oils and Fat Emulsions**

Issued To:

The Better Lot
Plot No. 651-652, Udyog Vihar, Phase 5,
Sector 19,Gurugram-122016, Haryana

Issue Date : 16-Sep-2026
Client Reference : By TRF

Sample Details:		
Sample ID	:	4092610763
Name of the Sample	:	Black Mustard Oil
Date of Receipt	:	11-Sep-2026
Job Ref. No.	:	TR/5794/26-27
Place of receipt / Lab	:	Gurgaon
Sample particulars	:	PA: BMO01 , Sample Quantity : 300 ML
Sampling Details	:	Sample Not Drawn by us
Analysis Starting Date	:	11-Sep-2026
Analysis Completion Date	:	14-Sep-2026
Sample Condition	:	Fit for analysis

Test Results

S.No	Test Parameter	Unit of Measurement	Test Method	Test Result
Group : General Parameters				
1	Rancidity, suspended or other foreign matter, separated water, added colouring or flavouring substances or mineral oil	-	FSSAI Manual of Methods	Absent
2	Total Polar compounds (TPC)	%	By TPM Meter	6.75
3	Rancidity	-	FSSAI 02.042:2021	Absent
4	Apperance	-	CommGrade/L3-GGN-FOO-131	Clear
5	Mineral oil	-	FSSAI 02.029:2021	Absent
6	Polybromide Test	-	FSSAI 02.018:2021	Negative
7	Test for argemone oil	-	FSSAI 02.032:2021	Negative
8	Acid value	-	IS 548 (Part 1/Sec 2) : 2021	2.40
9	Butyro refractometer reading at 40°C	-	IS 548 (Part 1/Sec 2) : 2021	59.7
10	Peroxide value	meq/kg	IS 548 (Part 1/Sec 2) : 2021	1.80
11	Allyl isothiocyanate	%	IS 548 (Part 1/Sec 2) : 2021	0.31
12	Iodine value	-	IS 548 (Part 1/Sec 2) : 2021	106.29
13	Refractive Index at 40°C	-	IS 548 (Part 1/Sec 2) : 2021	1.4657

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S.No	Test Parameter	Unit of Measurement	Test Method	Test Result
Group : General Parameters				
14	Saponification Value	-	IS 548 (Part 1/Sec 2) : 2021	171.98
15	Test for Hydrocyanic Acid	-	FSSAI 02.034:2021	Passes the test
16	Unsaponifiable matter	%	IS 548 (Part 1/Sec 2) : 2021	0.37
Group : Fatty Acids Profile				
17	C6:0 (Caproic acid)	g/100g	AOAC 996.06	BLQ(LOQ-0.1)
18	C8:0 (Caprylic acid)	g/100g	AOAC 996.06	BLQ(LOQ-0.1)
19	C10:0 (Capric acid)	g/100g	AOAC 996.06	BLQ(LOQ-0.1)
20	C12:0 (Lauric acid)	g/100g	AOAC 996.06	BLQ(LOQ-0.1)
21	C14:0 (Myristic acid)	g/100g	AOAC 996.06	BLQ(LOQ-0.1)
22	C16:0 (Palmitic acid)	g/100g	AOAC 996.06	3.200
23	C16:1 (Palmitoleic acid)	g/100g	AOAC 996.06	BLQ(LOQ-0.1)
24	C17:0 (Margaric acid)	g/100g	AOAC 996.06	BLQ(LOQ-0.1)
25	C17:1 (Cis -10 Heptadecanoic)	g/100g	AOAC 996.06	BLQ(LOQ-0.1)
26	C18:3 (Linolenic acid)	g/100g	AOAC 996.06	13.912
27	C20:0 (Arachidic acid)	g/100g	AOAC 996.06	0.935
28	C20:1 (Eicosenoic acid)	g/100g	AOAC 996.06	5.110
29	C20:2 (Eicosadienoic)	g/100g	AOAC 996.06	BLQ(LOQ-0.1)
30	C22:0 (Behenic acid)	g/100g	AOAC 996.06	1.156
31	C22:1 (Erucic acid)	g/100g	AOAC 996.06	45.215
32	C24:1 (Nervonic acid)	g/100g	AOAC 996.06	2.483
33	Oleic acid	g/100g	AOAC 996.06	10.479
34	Lignoceric acid	g/100g	AOAC 996.06	0.675
35	Linoleic Acid	g/100g	AOAC 996.06	14.810
36	Stearic Acid	g/100g	AOAC 996.06	1.987
37	Cis-13,16-Docosadienoic acid(C22:2)	g/100g	AOAC 996.06	BLQ(LOQ-0.1)
Group : Crop Contaminants				
38	Aflatoxin B1	µg/kg	CommGrade/L3-GGN-F00-011	BLQ(LOQ-2.0)
39	Total Aflatoxins	µg/kg	CommGrade/L3-GGN-F00-011	BLQ(LOQ-2.0)
Group : Metal Contaminants				
40	Arsenic as As	mg/kg	CommGrade/L3-GGN-FOO-003	BLQ(LOQ-0.01)
41	Cadmium as Cd	mg/kg	CommGrade/L3-GGN-FOO-003	BLQ(LOQ-0.01)

National Commodities Management Services Limited
CommGrade-Testing Services, Regional Laboratory (North)
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Group : Metal Contaminants				
42	Copper as Cu	mg/kg	CommGrade/L3-GGN-FOO-003	0.02
43	Lead as Pb	mg/kg	CommGrade/L3-GGN-FOO-003	BLQ(LOQ-0.01)
44	Mercury as Hg	mg/kg	CommGrade/L3-GGN-FOO-003	BLQ(LOQ-0.01)
45	Nickel as Ni	mg/kg	CommGrade/L3-GGN-FOO-003	0.13
46	Tin as Sn	mg/kg	CommGrade/L3-GGN-FOO-003	BLQ(LOQ-0.01)
Group : Pesticide residue				
47	Dichlorvos	mg/kg	CommGrade/L3-GGN-FOO-A#	BLQ(LOQ-0.01)
48	Methyl Parathion	mg/kg	CommGrade/L3-GGN-FOO-A#	BLQ(LOQ-0.01)
49	Oxydemeton methyl	mg/kg	CommGrade/L3-GGN-FOO-A#	BLQ(LOQ-0.01)
50	Phenthoate	mg/kg	CommGrade/L3-GGN-FOO-A#	BLQ(LOQ-0.01)
51	Phosalone	mg/kg	CommGrade/L3-GGN-FOO-A#	BLQ(LOQ-0.01)
52	Quinalphos	mg/kg	CommGrade/L3-GGN-FOO-A#	BLQ(LOQ-0.01)
53	Trichlorfon	mg/kg	CommGrade/L3-GGN-FOO-A#	BLQ(LOQ-0.01)

Remarks

1.Sample particulars are provided by customer.
2.BLQ=Below limit of quantification, LOQ= Limit of quantification.
3.A# = 048.

AJAY Digitally signed by AJAY Date: 2026.09.16 12:40:33 +05'30'

Authorized By
Ajay
Quality Analyst Supervisor

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

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