



QC-1/306 (19-6-03)
APPROVED BY AGMARK (Govt. of India)
ISO 9001-2008 Certified Company



Innovation & Quality Providing Food
Testing Company

R. K. ANALYTICAL LABORATORIES PVT. LTD.

Plot No. 1114, G.I.D.C.-2,
Sabalpur, JUNAGADH-362 002.

Mo. 98790 02937

E-mail : rklabqc@yahoo.com

TEST REPORT

Report Ref. No.:	RKL26270422008	Issue Date:	23.04.2026
ULR No.	TC-1604625000002163F	Sample Code No.	26270422008
Name & Address of Company / Person	BHARAT BOTANICS, Plot No., 4C & 4D, Shubham Industrial Area, Rajkot Highway, At. Jamvadi, Gondal		
Name & Address of Seller / Buyer Party	--		
Name & Address of Notify party	--		
Commodity / Product	Mustard Oil (Cold Press)	Product Code (Group)	Food & Agricultural Products
Sample Area / Vehicle No.	--	Discipline	Chemical
Sample Seal / Stamp Details	Plastic Lid Seal	Batch No./ Code No./ Bill No.:	--
Quantity of Material	--	Sample Drawn / Submitted By	By Courier
Received Sample Condition	Satisfactory	Quantity of Sample	200ml x 1 (Plastic Bottle)
Date of Mfg.	--	Any Other Information	--
Date of Sampling	--	Date of Exp.	--
Date of Sample Receipt	22.04.2026	Date of Testing	22.04.2026 to 23.04.2026

CHEMICAL ANALYSIS RESULTS

Sr. No.	Particular Test Name	Unit	Analysis Results	F.S. Standard Limits	Test Method
1.	Appearance & Taste	--	Yellow to Dark Brown Colour, Pungent smell	--	Visual Method
2.	F.F.A. / Acid Value	%	0.92%	Max. 3.0% / 6.0%	FSSAI02.009.2021
3.	Moisture & Insoluble Impurities	%	0.070%	Max. 0.10%	FSSAI02.001.2021
4.	Peroxide Value	meq/kg	3.20 meq/kg	Max. 10.0 meq/kg	FSSAI02.042.2021
5.	Refractive Index at 40.0°C	--	1.4659 at 40.0°C	1.4646 to 1.4662	FSSAI02.003.2021
6.	B.R. Reading at 40.0°C	--	60.0 at 40.0°C	58.0 to 60.5	FSSAI02.003.2021
7.	Boudein (Til Oil) Test	--	Negative	Must Be Negative	FSSAI02.013.2021

--- End of the Test Report---

Reviewed By
Mr. Vatsal Vasveliye
(T.M. Chemical)



Authorized By
Mr. Raj Vasveliye
(Q.M. Chemical)

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1.	Appearance & Taste	--	Yellow to Dark Brown Colour, Pungent smell	--	Visual Method
2.	Colour Index in 1/2" Cell	--	13.0 Units Y-8.0 R-1.0	--	FSSAI02.005.2021
3.	Rancidity	--	Free From Rancidity	Free From Rancidity	FSSAI02.043.2021
4.	Iodine Value	%	105.10%	96.0 to 112.0%	FSSAI02.010.2021
5.	Saponification Value	%	170.60%	168.0 to 177.0	FSSAI02.007.2021
6.	Unsaponification Value	%	0.90%	Max. 1.20%	FSSAI02.008.2021
7.	B.T.T. *C	*C	24.5*c	--	FSSAI02.012.2021
8.	Castor Test	--	Negative	Must Be Negative	FSSAI02.031.2021
9.	Hold's (Mineral Oil) Test	--	Negative	Must Be Negative	FSSAI02.029.2021
10.	Halphen (Cotton Oil) Test	--	Negative	Must Be Negative	FSSAI02.014.2021
11.	Cloud Point (Palm Oil) Test	--	Negative	Must Be Negative	FSSAI02.015.2021
12.	Argemone Oil Test (By TLC)	--	Negative	Must Be Negative	FSSAI02.032.2021
13.	Flash Point	--	No Flash up to 250*c	No Flash upto 250*C	FSSAI02.004.2021
14.	Antioxidant (T.B.H.Q.) Test	--	--	Max. 200.0 PPM	AOAC 983.15
15.	Hydrocyanic Acid	--	--	Must Be Negative	FSSAI 02.034:2021
16.	Allyl-Isothiocyanate Test	%	--	Min. 0.20%	IS: 548-1 (1964)

--- End of the Test Report---


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(T.M. Chemical)




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FATTY ACID ANALYSIS RESULTS

Sr. No.	Particular Test Name	Unit	Analysis Results	F.S. Standard Limits	Party Specification	Test Method
1.	Lauric Acid (C12:0)	%	N.D.	N.D.	--	FSSAI 02.019:2021
2.	Myristic Acid (C14:0)	%	0.069%	N.D. to 1.0%	--	
3.	Palmitic Acid (C16:0)	%	2.749%	0.50% to 5.0%	--	
4.	Palmitoleic Acid (C16:1)	%	0.165%	N.D. to 0.50%	--	
5.	Stearic Acid (C18:0)	%	1.417%	0.5% to 2.0%	--	
6.	Oleic Acid (C18:1)	%	12.614%	8.0% to 23.0%	--	
7.	Linoleic Acid (C18:2)	%	17.342%	10.0% to 24.0%	--	
8.	Linolenic Acid (C18:3)	%	11.854%	6.0% to 18.0%	--	
9.	Arachidic Acid (C20:0)	%	0.859%	N.D. to 1.50%	--	
10.	Gadoleic Acid (C20:1)	%	7.432%	5.0% to 13.0%	--	
11.	Behenic Acid (C22:0)	%	1.284%	0.20% to 2.50%	--	
12.	Erucic Acid (22:1)	%	43.504%	40.0% to 58.0%	Min. 45.0%	
13.	Lignoceric Acid (C24:0)	%	0.648%	N.D. to 0.80%	--	
14.	Elaidic Acid (C18:1n9t)	%	--	--	--	
15.	Linolelaidic Acid (C18:2n6t)	%	--	--	--	
16.	Saturated Fatty Acid	%	--	--	--	
17.	Monounsaturated Fatty Acid	%	--	--	--	
18.	Polyunsaturated Fatty Acid	%	--	--	--	
19.	Trans Fatty Acid	%	--	--	Max. 0.10%	

N.D. – Not Detected

--- End of the Test Report ---

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