



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.:	RKL26270422011	Issue Date:	23.04.2026
ULR No.	TC-1604625000002165F	Sample Code No.	26270422010
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	Til (Sesame) 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.:	Black
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

CHEMICAL ANALYSIS RESULTS

Sr. No.	Particular Test Name	Unit	Analysis Results	F.S. Standard Limits	Test Method
1.	Appearance & Taste	--	Black Colour, Slight Nutty Smell	--	Visual Method
2.	F.F.A. / Acid Value	%	2.02%	Max. 3.0% / 6.0%	FSSAI02.009.2021
3.	Moisture & Insoluble Impurities	%	0.078%	Max. 0.10%	FSSAI02.001.2021
4.	Peroxide Value	meq/kg	4.08 meq/kg	Max. 10.0 meq/kg	FSSAI02.042.2021
5.	Refractive Index at 40.0°C	--	1.4660 at 40.0°C	1.4646 to 1.4665	FSSAI02.003.2021
6.	B.R. Reading at 40.0°C	--	60.2 at 40.0°C	58.0 to 61.0	FSSAI02.003.2021
7.	Boudein (Til Oil) Test	--	11.6 RU	Min. 8.0 RU	FSSAI02.013.2021
8.	Specific Gravity 30°C	gm/ml	--	--	FSSAI02.002.2021

--- End of the Test Report---

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



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

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Name & Address of Notify party	--		
Commodity / Product	Til (Sesame) 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.:	Black
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

CHEMICAL ANALYSIS RESULTS

Sr. No.	Particular Test Name	Unit	Analysis Results	F.S. Standard Limits	Test Method
1.	Appearance & Taste	--	--	--	Visual Method
2.	Colour Index in 1/2" Cell	--	11.0 Units Y-7.0 R-0.8	--	FSSAI02.005.2021
3.	Peroxide Value	meq/kg	--	Max. 10.0 meq/kg	FSSAI02.042.2021
4.	Rancidity	--	Free Form Rancidity	Free From Rancidity	FSSAI02.043.2021
5.	Iodine Value	%	110.80%	103.0 to 120.0%	FSSAI02.010.2021
6.	Saponification Value	%	192.50%	188.0 to 193.0	FSSAI02.007.2021
7.	Unsaponification Value	%	1.20%	Max. 1.50%	FSSAI02.008.2021
8.	B.T.T. *C	*C	20.2*c	--	FSSAI02.012.2021
9.	Castor Test	--	Negative	Must Be Negative	FSSAI02.031.2021
10.	Hold's (Mineral Oil) Test	--	Negative	Must Be Negative	FSSAI02.029.2021
11.	Halphen (Cotton Oil) Test	--	Negative	Must Be Negative	FSSAI02.014.2021
12.	Cloud Point (Palm Oil) Test	--	Negative	Must Be Negative	FSSAI02.015.2021
13.	Argemone Oil Test (By TLC)	--	Negative	Must Be Negative	FSSAI02.032.2021
14.	Flash Point	--	No Flash up to 250*c	No Flash upto 250*C	FSSAI02.004.2021
15.	Antioxidant (T.B.H.Q.) Test	--	--	Max. 200.0 PPM	AOAC 983.15
16.	Oryzanol Content	%	--	--	FSSAI 02.052:2021

--- End of the Test Report---


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FATTY ACID ANALYSIS RESULTS

Sr. No.	Particular Test Name	Unit	Analysis Results	F.S. Standard Limits	Test Method
1.	Lauric Acid (C12:0)	%	N.D.	N.D. to 1.50%	FSSAI 02.019:2021
2.	Myristic Acid (C14:0)	%	0.230%	N.D. to 0.80%	
3.	Palmitic Acid (C16:0)	%	13.445%	7.90% to 14.60%	
4.	Palmitoleic Acid (C16:1)	%	0.158%	N.D. to 0.20%	
5.	Stearic Acid (C18:0)	%	3.605%	2.0% to 8.0%	
6.	Oleic Acid (C18:1)	%	37.868%	34.40% to 48.0%	
7.	Linoleic Acid (C18:2)	%	41.628%	28.0% to 47.90%	
8.	Linolenic Acid (C18:3)	%	0.096%	N.D. to 1.0%	
9.	Arachidic Acid (C20:0)	%	0.702%	0.10% to 0.80%	
10.	Gadoleic Acid (C20:1)	%	0.255%	N.D. to 0.50%	
11.	Behenic Acid (C22:0)	%	0.350%	N.D. to 1.10%	
12.	Erucic Acid (22:1)	%	--	N.D.	
13.	Lignoceric Acid (C24:0)	%	0.233%	N.D. to 0.50%	
14.	Elaidic Acid (C18:1n9t)	%	0.048%	--	
15.	Linolelaidic Acid (C18:2n6t)	%	1.382%	--	
16.	Saturated Fatty Acid	%	--	--	
17.	Monounsaturated Fatty Acid	%	--	--	
18.	Polyunsaturated Fatty Acid	%	--	--	
19.	Trans Fatty Acid	%	--	--	

N.D. – Not Detected

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