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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.:	RKL25260312004	Issue Date:	13.03.2026
ULR No.	TC-1604625000002002F	Sample Code No.	25260312004
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	Raw Groundnut 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	12.03.2026	Date of Testing	12.03.2026 & 13.03.2026

CHEMICAL ANALYSIS RESULTS

Sr. No.	Particular Test Name	Unit	Analysis Results	F.S. Standard Limits	Test Method
1.	Appearance & Taste	--	Yellow Colour, Nutty Smell	--	Visual Method
2.	F.F.A. / Acid Value	%	1.10%	Max. 3.0% / 6.0%	FSSAI02.009.2021
3.	Moisture & Insoluble Impurities	%	0.090%	Max. 0.10%	FSSAI02.001.2021
4.	Peroxide Value	meq/kg	5.16 meq/kg	Max. 10.0 meq/kg	FSSAI02.042.2021
5.	Refractive Index at 40.0°C	--	1.4625 at 40.0*c	1.4620 to 1.4640	FSSAI02.003.2021
6.	B.R. Reading at 40.0°C	--	54.8 at 40.0*c	54.0 to 57.1	FSSAI02.003.2021
7.	Boudein (Til Oil) Test	--	Negative	Must Be Negative	FSSAI02.013.2021
8.	Specific Gravity 30°C	g/ml	0.915	0.914 to 0.917	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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QC-1/306 (19-6-03)

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TEST REPORT

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ULR No.	TC-160462500002002N	Sample Code No.	25260312004
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Name & Address of Seller / Buyer Party	--		
Name & Address of Notify party	--		
Commodity / Product	Raw Groundnut 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	12.03.2026	Date of Testing	12.03.2026 & 13.03.2026

CHEMICAL ANALYSIS RESULTS

Sr. No.	Particular Test Name	Unit	Analysis Results	F.S. Standard Limits	Test Method
1.	Appearance & Taste	--	Yellow Colour, Nutty Smell	--	Visual Method
2.	Colour Index in 1/2" Cell (Y+5R)	--	4.8 Units Y-3.3 R-0.3	--	FSSAI02.005.2021
3.	Rancidity (Kries Test)	--	Free From Rancidity	Free From Rancidity	FSSAI02.043.2021
4.	Iodine Value	%	87.62%	85.0 to 99.0%	FSSAI02.010.2021
5.	Saponification Value	%	192.40%	188.0 to 196.0	FSSAI02.007.2021
6.	Unsaponification Value	%	0.70%	Max. 1.0%	FSSAI02.008.2021
7.	B.T.T. °C	°C	39.5*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.	Hexabromide Test (Linseed Oil Test)	--	Negative	Must Be Negative	FSSAI 02.017:2021
14.	Hydrocyanic Acid Test	--	Negative	Must Be Negative	FSSAI 02.034:2021
15.	Tricresyl Phosphate (By TLC)	--	Negative	Must Be Negative	FSSAI 02.036:2021
16.	Flash Point	--	No Flash up to 250*c	No Flash upto 250°C	FSSAI02.004.2021
17.	Detection Test for Vitamin A & D ₂	--	--	--	FSSAI02.040.2021
14.	Antioxidant (T.B.H.Q.) Test	--	--	Max. 200.0 PPM	AOAC 983.15
15.	Determination of Alkalinity (Soap PPM)	PPM	--	--	ISO 10539:2002
16.	Bleachability %	%	--	--	--
17.	Colour in 1" Lovibond Cell	--	--	--	--
18.	After Colour in 1" Lovibond Cell	--	--	--	--

--- 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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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. to 1.0%	--	FSSAI 02.019:2021
2.	Myristic Acid (C14:0)	%	0.024%	N.D. to 0.50%	Max. 0.035%	
3.	Palmitic Acid (C16:0)	%	9.505%	6.0% to 14.0%	Max. 11.50%	
4.	Palmitoleic Acid (C16:1)	%	0.060%	N.D. to 0.20%	--	
5.	Stearic Acid (C18:0)	%	3.413%	0.60% to 7.0%	--	
6.	Oleic Acid (C18:1)	%	60.465%	35.0% to 69.0%	Min. 50.0%	
7.	Elaidic Acid (C18:1n9t)	%	0.027%	--	--	
8.	Linolelaidic Acid (C18:2n6t)	%	0.015%	--	--	
9.	Linoleic Acid (C18:2)	%	19.968%	12.0% to 43.0%	Max. 26.0%	
10.	Linolenic Acid (C18:3)	%	0.064%	N.D. to 0.30%	Max. 0.10%	
11.	Arachidic Acid (C20:0)	%	1.528%	1.0% to 4.0%	--	
12.	Gadoleic Acid (C20:1)	%	1.077%	0.70% to 1.70%	--	
13.	Behenic Acid (C22:0)	%	2.445%	1.50% to 4.50%	--	
14.	Erucic Acid (22:1)	%	0.066%	N.D. to 0.30%	Max. 0.10%	
15.	Lignoceric Acid (C24:0)	%	1.341%	0.50% to 2.50%	--	
16.	Saturated Fatty Acid	%	--	--	--	
17.	Monounsaturated Fatty Acid	%	--	--	--	
18.	Polyunsaturated Fatty Acid	%	--	--	--	
19.	Trans Fatty Acid	%	0.042%	--	Max. 0.10%	

N.D. – Not Detected

--- End of the Test Report ---

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