



International
Independent Inspection
&
Testing Company

"Scan to Authenticate"

GDM-CRT-23-24-11862

JOB REF NO: GDM-JB2324-007643

DATE: 22ND DECEMBER 2023

C12 - C14	0.50% max	ISO 12966-4/12966-2	% BY AREA	N.D
Palmitic	1.50% max			1.13
C 18:0 +C18:1	12.0 % max			10.27
12- Hydroxystearic acid	85% min			86.67
12-Ketostearic acid	2.0%max			0.80
Arachidic C 20	1.00% max			0.10
C 22 Behenic	0.50% max			0.11
Others	1.50% max			0.92
Recovery	90% Min			99.08

Moisture & Volatile matter reading is based on the shipper's laboratory for B/no.SK23819.

Note: ND= Not Detected , Detection Limit 0.05% by area

BLQ =Below limit of Quantification, Limit of Quantification 0.02mg/kg

Sr. No.	Test Parameter	Specification	Test method	Units	B/NO.SK23820 QTY:12.000MT Lab No.09700 SH/23/12/03602 22312K36579
1	Appearance	Flakes	SOP/GCGDM/OIL/001	-	Off white powder
2	Acid value	175 - 185	AOCS Cd 3d -63 (RA-2017)	mgKOH/gm	175.78
3	Iodine value	< 3	AOCS Tg 1a - 64 (RA-2017)	gml ₂ /100gm	1.96
4	Colour Lovibond 1 inch	< 2.0 RED < 10.0YELLOW	AOCS Cc 13e - 92 (RA-2017)	Red Yellow	1.5R 4.0Y
5	Colour Gardner	< 5	AOCS Td 1a - 64 (RA-2017)	-	3+G
6	Colour heat stability	7 max	AOCS Td 3a - 64 (RA-2017)	-	5+G
7	Melting point	74 -79	AOCS Cc 1 - 25 (RA-2017)	Deg C	76.8
8	Hydroxyl value	155 - 165	BY GC	mgKOH/gm	158.48
9	Saponification value	182 - 192	AOCS Cd 3 - 25 (RA-2017)	mgKOH/gm	184.86
10	Unsaponifiable matter	< 1 %	AOCS Ca 6a-40 (RA-2017)	%	0.48

ISSUED WITHOUT PREJUDICE

FOR GEO-CHEM LABORATORIES PRIVATE LIMITED



(AUTHORISED SIGNATORY)

4/5

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This document is to be considered as an ORIGINAL as per UCP600 guidelines. This document is subject to our general terms and conditions of service (<http://geochem.net.in/tac.html>). Any unauthorised alteration to the document is illegal and unlawful and will attract prosecution as per the law. The inspection / testing has been performed to the best of our ability. This certificate reflects our findings at the time and place of inspection / testing and does not relieve parties from their contractual obligations. Samples will be retained by us for a period of 60 days only, unless specific instructions to the contrary are received.





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11	Moisture and volatile matter	< 1 %	AOCS Ca 2c- 25 (RA-2017)	%	0.39
12	Drop point	71 - 80 °C	ASTM D 127-19	°C	75.6
13	Sieve residue 1000µ (1mm)	<1.0%	--	%	0.59
14	Nickel	1 ppm max	GCLPL/QS/CRA/5.4/100 (ICP-MS)	Mg/kg	BLQ
14	Fatty acid composition by GC		ISO 12966-4/12966-2	% BY AREA	
	C12 - C14	0.50% max			N.D
	Palmitic	1.50% max			1.16
	C 18:0 +C18:1	12.0 % max			10.37
	12- Hydroxystearic acid	85% min			86.48
	12-Ketostearic acid	2.0%max			0.83
	Arachidic C 20	1.00% max			0.09
	C 22 Behenic	0.50% max			0.11
	Others	1.50% max			0.96
	Recovery	90% Min			99.04

Note: ND= Not Detected , Detection Limit 0.05% by area

BLQ =Below limit of Quantification, Limit of Quantification 0.02mg/kg .

The Quality Of Wood Used, Heat Treatment And Fumigation Of The Pallets Is The Responsibility Of The Shipper. We Can Verify The Documents Present By The Shipper To Us As Shipper's And Their Pallets Supplier Witness This Activity.

Due To Inherent Nature Of The Product & Or Transit Effect, No Responsibility Can Be Assumed For Any Qualitative Deviation Including Sweating Of The Product.

Although The Inspection Was Carried Out Thoroughly And With Due Diligence, The Reported Findings Are Limited To The Visual Examination Of The Safely And Readily Accessible Portions Of The Consignment Only.

This Certificate Reflects Our Findings At The Time, Date And Place Of Inspection Only And Does Not Refer To Any Other Matter

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