

R#15742
R50176
1-14-23



TROPICAL NETWORK SENDIRIAN BERHAD
7 & 9, JALAN BUKIT 2, KAWASAN MIEL, BANDAR SERI ALAM FASA VII
81750 MASAI, JOHOR BAHRU, JOHOR, MALAYSIA
TEL : +607-386 5991/2/7 FAX : +607-386 5990/6 E-mail : sales@tropical-network.com Website: www.tropical-network.com

Co. No. 243941 H

CERTIFICATE OF ANALYSIS

STEARIC ACID 50 NF VEGETABLE BASED POWDER - RSPO MB

COA No: 8660
DATE : 12-October-2021

CUSTOMER	: C2C NUTRA, LLC	D.O.M.	: 23-September-2021
PACKING	: 800 CTNS X 50 LBS	D.O.E.	: 22-September-2023
CONTRACT NO.	: TN/2K21-09/S3055	SHIPMENT DATE	: 03-October-2021
LOT NO	: PN23268-008614	CONTAINER NO	: OOCU8996845
ORIGIN	: MALAYSIA	MANUFACTURED BY	: LIPIDCHEM, ADDRESS AS SHOWN ABOVE. RSPO-SC 00132

<u>No</u>	<u>PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST METHOD</u>	<u>RESULT</u>
1	Appearance - Fine Powder	Match Control Sample	Visual	Complies
2	Colour of Solution	Resulting liquid is not intensely coloured than standard solution Y or solution BY	Current NF Monograph	Complies
3	Color	White to faintly yellowish	Visual	Complies
Identification				
4	A: Freezing Point, deg C	53 - 59	Current NF Monograph	55.6
5	B: Acid Value, mg KOH / g	194 - 212	Current NF Monograph	208.15
6	C: Retention Time	Retention time of major peaks matches the standards	Current NF Monograph	Complies
7	Titer, deg C	54 - 56.6	AOCS Tr 1a 64 / NF <651>	55.6
8	Saponification Value, mg KOH / g	206 - 211	Current USP	210.1
9	Fat and Oils (Iodine Value), gl ₂ /100g	0.5 max	Current USP <401>	0.35
10	Sieve Test Thru 100 Mesh, %	99 -100	Particle Size Analyser CILAS 990L	100
11	Colour 5 ¼ " Lovibond Cell	0.1R/1.0Y max	AOCS Cc 13b-45	0.1R/0.9Y
12	Colour Transmittance 440, %	92 min	UVS	98.5
13	Colour Transmittance 550, %	93 min	UVS	99.0
14	Unsaponifiable Matter, %	0.5 max	AOCS Tk 1a-64	0.29
15	Moisture,%	0.3 max	Karl Fischer	0.04
16	Acidity	No red colour develops	Current NF	Passed
17	Arsenic , ppm	1.0 max	AAS	Not Detected (<0.05)
18	Residue on Ignition, %	0.1 max	Current NF <281>	0.04
19	Heavy Metal as Pb, ppm	10 max	Current NF <231>	< 5





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20	Mineral Acid	Pass Test	NF 29	Passed
21	Neutral Fat or Paraffin	Pass Test	NF 29	Passed
22	Residual Solvent <467>	Per declaration on file, Lipidchem does not use any of the class 1,2,3 solvents.	Per current NF requirement, an updated Statement must be provided every 2 years to conform to NF <467> compliancy	Complies


Microbiological Testing:

23	Total Aerobic Plate, cfu/g	<10	} FDA-BAM (Testing must be performed quarterly and results are to be reported)	<10
24	Total Yeast and Mould, cfu/g	<10		<10
25	E.coli Count, MPN/g	Negative		Negative
26	Salmonella in 25g	Negative		Negative
27	Staphylococcus Aureus, cfu/g	Negative		Negative
28	Nickel, ppm	1.0 Max	AAS	Not Detected (<0.02)

Fatty Acid Composition, %:

29	C12	1.0 max	GC/Current NF Monograph	0.00
30	C14	1.5 max	GC/Current NF Monograph	0.00
31	C16	52 - 56	GC/Current NF Monograph	54.92
32	C18	42 - 48	Current NF	45.08
33	C16 + C18	90 - 100	Current NF	100.00
34	Bulk Density	410 - 485 kg/m3	Current USP	439.6
35	Cadmium, ppm	2.0 max	Current NF <2232>	Not Detected (<0.02)
36	Lead, ppm	0.5 max	Current NF <2232>	Not Detected (<0.02)
37	Mercury, ppm	0.1 max	Current NF <2232>	Not Detected (<0.02)
38	Elemental Impurities Limits	NMT Daily Dose PDE	Current NF <2232>	Complies

Authorized signature,



 Asnita Baharin
 QCQA Asst. Manager



Note:

1. Current USP/NF is USP41 / NF 36 (officially on May 01, 2018)
2. Microbe test - reported date: 18 June 2021