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CERTIFICATE OF ANALYSIS

Product Name	SHEA BUTTER
Botanical Name	Butyrospermum parkii (syn Vitellaria paradoxa)
Product Code	SC8591
CAS #	91080-23-8 ; 194043-92-0
EINECS #	293-515-7
INCI Name	Butyrospermum Parkii (Shea) Butter

Batch #	23220703
Manufacturing Date	JULY 2023
Best Before Date	JULY 2025

Part Used	Nuts
Extraction Method	Cold Pressed and Unrefined
Quality	100% Pure and Natural

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
Appearance	Ivory white semi-solid fat	CONFORMS
Odour	Characteristic neutral odour	CONFORMS
Melting Point (°C)	31° - 44°	CONFORMS
Moisture (%)	Maximum 0.1	0.02
Saponification Value (mgKOH/g)	178-195	185
Unsaponifiables Matter (%m/m)	4.0 – 9.0	CONFORMS
Peroxide Value (meq O₂/kg)	Maximum 5.0	CONFORMS
Iodine Value (g I₂/100g)	50-72	60
Free Fatty Acids (% oleic)	Less than 0.1	CONFORMS
Acid Value (mgKOH/g)	Less than 1.5	CONFORMS
Solubility	Soluble in cosmetic esters and fixed oils; Insoluble in water	CONFORMS

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FATTY ACID COMPOSITION:

FATTY ACID	C-CHAIN	SPECIFICATIONS (%)	RESULTS (%)
Palmitic Acid	C16:0	2.00 – 9.00	3.70
Stearic Acid	C18:0	36.00 – 47.00	41.80
Oleic Acid	C18:1 (n-9)	40.00 – 50.00	46.10
Linoleic Acid	C18:2 (n-6)	3.00 – 10.00	6.50
Arachidic Acid	C20:0	Maximum 3.50	1.30

MICROBIAL ANALYSIS	SPECIFICATIONS	STANDARDS	RESULTS
Aerobic Mesophilic Bacterial Count	< 100 CFU/g	ISO 21149	CONFORMS
Yeast and Mould	< 10 CFU/g	ISO 16212	CONFORMS
Candida albicans	ABSENT / 1g	ISO 18416	CONFORMS
Escherichia coli	ABSENT / 1g	ISO 21150	CONFORMS
Pseudomonas aeruginosa	ABSENT / 1g	ISO 22717	CONFORMS
Staphylococcus aureus	ABSENT / 1g	ISO 22718	CONFORMS

HEAVY METAL TESTS	SPECIFICATIONS	STANDARDS	RESULTS
Lead: Pb (mg/kg or ppm)	< 20 ppm	na	CONFORMS
Arsenic: As (mg/kg or ppm)	< 5 ppm	na	CONFORMS

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Mercury: Hg (mg/kg or ppm)	< 1 ppm	na	CONFORMS
Cadmium: Cd (mg/kg or ppm)	< 5 ppm	na	CONFORMS
Antimony: Sb (mg/kg or ppm)	< 10 ppm	na	CONFORMS

STABILITY AND STORAGE:

Keep in tightly closed container in a cool and dry place, protected from sunlight. When stored for more than 24 months, quality should be checked before use.

As it is electronically generated document, hence no signature required.

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