



CERTIFICATE OF ANALYSIS (COA)

Product Name	SHEA NILOTICA (EAST AFRICAN SHEA) OIL
Botanical Name	Vitellaria paradoxa subsp nilotica
Product Code	PCO4159
INCI Name	Butyrospermum Parkii (Shea) Oil (sp. V. nilotica)

Batch #	41592605
Manufacturing Date	MAY 2026
Best Before Date	APRIL 2028

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
Appearance	Pale yellow to golden colored liquid	CONFORMS
Odour	Characteristic mild odour	CONFORMS
Refractive Index	1.460 - 1.480 @ 20°C	1.468
Specific Gravity (g/mL)	0.910 - 0.940 @ 20°C	0.925
Saponification Value (mgKOH/g)	175 - 195	186
Peroxide Value (meq O ₂ /kg)	Less than 2.0	CONFORMS
Iodine Value (g I ₂ /100g)	75 - 90	78
Acid Value (mgKOH/g)	Less than 0.5	0.12
Solubility	Soluble in cosmetic esters and fixed oils; Insoluble in water	CONFORMS

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FATTY ACID COMPOSITION:

<u>FATTY ACID</u>	<u>C-CHAIN</u>	<u>SPECIFICATIONS (%)</u>	<u>RESULTS (%)</u>
Palmitic Acid	C16:0	2.00 – 6.00	4.70
Stearic Acid	C18:0	4.00 – 8.00	5.90
Oleic Acid	C18:1 (n-9)	60.00 – 74.00	70.40
Linoleic Acid	C18:2 (n-6)	13.00 – 20.00	18.10

<u>MICROBIAL ANALYSIS</u>	<u>SPECIFICATIONS</u>	<u>STANDARDS</u>	<u>RESULTS</u>
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

<u>HEAVY METAL TESTS</u>	<u>SPECIFICATIONS</u>	<u>STANDARDS</u>	<u>RESULTS</u>
Lead: Pb (mg/kg or ppm)	< 10 ppm	na	CONFORMS
Arsenic: As (mg/kg or ppm)	< 2 ppm	na	CONFORMS
Mercury: Hg (mg/kg or ppm)	< 1 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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