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CERTIFICATE OF ANALYSIS (COA)

Product Name	MANKETTI (MONGONGO) OIL
Botanical Name	Schinziophyton rautanenii
Product Code	PCO4066
INCI Name	Schinziophyton Rautanenii Kernel Oil

Batch #	40662311
Manufacturing Date	NOVEMBER 2023
Best Before Date	OCTOBER 2025

Part Used	Nut Kernels
Extraction Method	Cold Pressed
Quality	100% Pure and Natural

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
Appearance	Pale yellow to greenish golden colored liquid	CONFORMS
Odour	Characteristic mild fatty odour	CONFORMS
Refractive Index	1.480 - 1.494 @ 20°C	1.485
Specific Gravity (g/mL)	0.920 - 0.960 @ 20°C	0.941
Saponification Value (mgKOH/g)	190 - 205	195
Peroxide Value (meq O₂/kg)	Less than 10.0	CONFORMS
Iodine Value (g I₂/100g)	105 - 145	118
Free Fatty Acids (% oleic)	Less than 3.0	0.25
Acid Value (mgKOH/g)	Less than 6.0	0.50
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	5.00 – 15.00	7.30
Stearic Acid	C18:0	4.00 – 9.00	5.30
Oleic Acid	C18:1 (n-9)	14.00 – 20.00	19.40
Linoleic Acid	C18:2 (n-6)	27.00 – 45.00	42.30
α-Eleostearic Acid	C18:3	20.00 – 35.00	25.00

<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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