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CERTIFICATE OF ANALYSIS (COA)

Product Name	MARULA OIL
Botanical Name	Sclerocarya birrea
Product Code	PCO4052
INCI Name	Sclerocarya Birrea (Marula) Seed Oil

Batch #	40522405
Manufacturing Date	MAY 2024
Best Before Date	APRIL 2026

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
Appearance	Clear light yellow colored liquid	CONFORMS
Odour	Characteristic mild nutty odour	CONFORMS
Refractive Index	1.460 - 1.480 @ 20°C	1.473
Specific Gravity (g/mL)	0.905 - 0.930 @ 20°C	0.916
Saponification Value (mgKOH/g)	185 - 215	196
Peroxide Value (meq O₂/kg)	Less than 10.0	CONFORMS
Iodine Value (g I₂/100g)	60 - 80	71
Acid Value (mgKOH/g)	Less than 5.0	CONFORMS
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	9.00 – 12.00	10.20
Stearic Acid	C18:0	5.00 – 8.00	5.90
Oleic Acid	C18:1 (n-9)	70.00 – 78.00	75.10
Linoleic Acid	C18:2 (n-6)	4.00 – 7.00	6.70
Alpha-Linolenic Acid	C18:3 (n-3)	0.10 – 0.70	0.60
Arachidic Acid	C20:0	Maximum 1.00	0.40

<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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