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CERTIFICATE OF ANALYSIS (COA)

Product Name	ARGAN OIL
Botanical Name	Argania spinosa
Product Code	PCO4002
CAS #	223747-87-3
INCI Name	Argania spinosa (Argan) Kernel oil

Batch #	40022412
Manufacturing Date	DECEMBER 2024
Best Before Date	NOVEMBER 2026

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
Appearance	Clear light yellow to golden colored liquid	CONFORMS
Odour	Nearly odourless	CONFORMS
Refractive Index	1.460 - 1.480 @ 20°C	1.472
Specific Gravity (g/mL)	0.908 - 0.918 @ 20°C	0.913
Saponification Value (mgKOH/g)	185 - 200	193
Peroxide Value (meq O₂/kg)	Less than 10.0	CONFORMS
Iodine Value (g I₂/100g)	95 - 105	99
Free Fatty Acids (% oleic)	Less than 0.5	0.1
Acid Value (mgKOH/g)	Less than 1.0	0.2
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	10.00 – 15.00	11.20
Stearic Acid	C18:0	4.00 – 7.00	4.40
Oleic Acid	C18:1 (n-9)	43.00 – 50.00	48.10
Linoleic Acid	C18:2 (n-6)	29.00 – 37.00	35.50

<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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