

CERTIFICATE OF ANALYSIS (COA)

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

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULT</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 O ₂ /kg)	Less than 10.0	CONFORMS
Iodine Value (g I ₂ /100g)	95 - 105	99
Free Fatty Acids (% oleic)	Less than 0.5	0.2
Acid Value (mgKOH/g)	Less than 1.0	CONFORMS
Solubility	Soluble in cosmetic esters and fixed oils; Insoluble in water	CONFORMS

FATTY ACID COMPOSITION:

FATTY ACID	<u>C-CHAIN</u>	<u>SPECIFICATIONS (%)</u>	<u>RESULTS</u>
Palmitic Acid	<u>C16:0</u>	<u>10.00 - 15.00</u>	<u>11.20</u>
Stearic Acid	<u>C18:0</u>	<u>4.00 - 7.00</u>	<u>4.40</u>
Oleic Acid	<u>C18:1 (n-9)</u>	<u>43.00 - 50.00</u>	<u>48.10</u>
Linoleic Acid	<u>C18:2 (n-6)</u>	<u>29.00 - 37.00</u>	<u>35.50</u>

MICROBIAL ANALYSIS	<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

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<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

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