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CERTIFICATE OF ANALYSIS (COA)

Product Name	WALNUT OIL
Botanical Name	Juglans regia
Product Code	PCO4044
CAS #	8024-09-07 ; 84012-43-1
EINECS #	281-688-1
INCI Name	Juglans Regia Seed Oil

Batch #	40442502
Manufacturing Date	FEBRUARY 2025
Best Before Date	JANUARY 2027

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
Appearance	Pale yellow to golden yellow colored liquid	CONFORMS
Odour	Characteristic mild, nutty odour	CONFORMS
Refractive Index	1.469 - 1.478 @ 20°C	1.474
Specific Gravity (g/mL)	0.910 - 0.930 @ 20°C	0.917
Saponification Value (mgKOH/g)	189 - 197	CONFORMS
Peroxide Value (meq O₂/kg)	Less than 5.0	CONFORMS
Iodine Value (g I₂/100g)	147 - 157	152
Acid Value (mgKOH/g)	Less than 0.6	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	5.00 – 9.00	6.30
Palmitoleic Acid	C16:1 (n-7)	Maximum 1.00	0.30
Stearic Acid	C18:0	1.00 – 3.00	1.60
Oleic Acid	C18:1 (n-9)	13.00 – 26.00	19.20
Linoleic Acid	C18:2 (n-6)	45.00 – 65.00	59.90
Alpha-Linolenic Acid	C18:3 (n-3)	9.00 – 15.00	12.00

<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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