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CERTIFICATE OF ANALYSIS (COA)

Product Name	GOLDEN JOJOBA OIL
Botanical Name	Simmondsia chinensis
Product Code	PCO4010
CAS #	61789-91-1; 90045-98-0
EINECS #	289-964-3
INCI Name	Simmondsia chinensis (Jojoba) Seed Oil

Batch #	40102410
Manufacturing Date	OCTOBER 2024
Best Before Date	SEPTEMBER 2027

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
Appearance	Pale yellow to golden colored liquid	CONFORMS
Odour	Very mild odour	CONFORMS
Refractive Index	1.460 - 1.468 @ 20°C	1.464
Specific Gravity (g/mL)	0.863 - 0.895 @ 20°C	0.877
Saponification Value (mgKOH/g)	85 - 110	94
Unsaponifiable Matter (%)	45.0 – 55.0	CONFORMS
Peroxide Value (meqO₂/kg)	Less than 2.0	CONFORMS
Iodine Value (g I₂/100g)	80 - 92	84
Acid Value (mgKOH/g)	Less than 1.0	0.11
Moisture (%)	Maximum 0.1%	0.01
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	Maximum 3.00	0.50
Palmitoleic Acid	C16:1 (n-7)	Maximum 1.00	0.20
Oleic Acid	C18:1 (n-9)	5.00 – 15.00	10.90
11-Eicosenoic Acid	C20:1 (n-9)	65.00 – 80.00	74.70
Erucic Acid	C22:1 (n-9)	10.00 – 20.00	12.30
Nervonic Acid	C24:1 (n-9)	Maximum 3.00	0.80

WAX ESTERS COMPOSITION:

<u>WAX ESTERS</u>	<u>SPECIFICATIONS (%)</u>	<u>RESULTS</u>
C36	Maximum 2.00	CONFORMS
C38	Maximum 10.00	CONFORMS
C40	27.00 – 37.00	CONFORMS
C42	45.00 – 56.00	CONFORMS
C44	Maximum 13.00	CONFORMS
C46	Maximum 2.00	CONFORMS

<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

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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

STABILITY AND STORAGE:

Keep in tightly closed container in a cool and dry place, protected from sunlight. When stored for more than 36 months, quality should be checked before use.

As it is electronically generated document, hence no signature required.

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