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## CERTIFICATE OF ANALYSIS (COA)

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

<b>Batch #</b>	40102308
<b>Manufacturing Date</b>	AUGUST 2023
<b>Best Before Date</b>	JULY 2026

<b>Part Used</b>	Seeds
<b>Extraction Method</b>	Cold Pressed
<b>Quality</b>	100% Pure and Natural

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
<b>Appearance</b>	Pale yellow to golden colored liquid	CONFORMS
<b>Odour</b>	Very mild odour	CONFORMS
<b>Refractive Index</b>	1.460 - 1.468 @ 20°C	1.464
<b>Specific Gravity (g/mL)</b>	0.863 - 0.895 @ 20°C	0.876
<b>Saponification Value (mgKOH/g)</b>	85 - 110	94
<b>Unsaponifiable Matter (%)</b>	45.0 – 55.0	CONFORMS
<b>Peroxide Value (meqO<sub>2</sub>/kg)</b>	Less than 2.0	CONFORMS
<b>Iodine Value (g I<sub>2</sub>/100g)</b>	80 - 92	83
<b>Acid Value (mgKOH/g)</b>	Less than 1.0	0.12
<b>Moisture (%)</b>	Maximum 0.1%	0.01
<b>Solubility</b>	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	0.30
Oleic Acid	C18:1 (n-9)	5.00 – 15.00	10.80
11-Eicosenoic Acid	C20:1 (n-9)	65.00 – 80.00	74.90
Erucic Acid	C22:1 (n-9)	10.00 – 20.00	12.10
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>
<b>Lead: Pb (mg/kg or ppm)</b>	< 10 ppm	na	CONFORMS
<b>Arsenic: As (mg/kg or ppm)</b>	< 2 ppm	na	CONFORMS
<b>Mercury: Hg (mg/kg or ppm)</b>	< 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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