

CERTIFICATE OF ANALYSIS (COA)

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

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	1.463
Specific Gravity (g/mL)	0.863 - 0.895 @ 20°C	0.877
Saponification Value (mgKOH/g)	85-110	93
Unsaponifiable Matter (%)	45.0 – 55.0	CONFORMS
Peroxide Value (meqO2/kg)	Less than 2.0	CONFORMS
Iodine Value (g I2/100g)	80 - 92	85
Acid Value (mgKOH/g)	Less than 1.0	0.11
Moisture (%)	Maximum 0.1%	0.11
Solubility	Soluble in cosmetic esters and fixed oils; Insoluble in water	CONFORMS

FREE ACID COMPOSITION

FATTY ACID	C-CHAIN	SPECIFICATIONS (%)	RESULTS (%)
Palmitic Acid	C16:0	Maximum 3.00	0.50
Palmitoleic Acid	C16:1	Maximum 1.00	0.20
Oleic Acid	C18:1 (n-9)	5.00 – 15.00	10.80
11-Eicosenoic Acid	C20:1 (n-9)	65.00 – 80.00	74.60
Erucic Acid	C22:1 (n-9)	10.00 – 20.00	12.40
Nervonic Acid	C24:1 (n-9)	Maximum 3.0	0.80

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

<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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