

CERTIFICATE OF ANALYSIS (COA)

Product Name	CAMELINA OIL
Botanical Name	Camelina sativa
CAS #	-
EINECS #	-
INCI Name	Camelina Sativa Seed Oil

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULT</u>
Appearance	Pale yellow to amber colored liquid	CONFORMS
Odour	Characteristic mild herbaceous, green odour	CONFORMS
Refractive Index	1.470 - 1.480 @ 20°C	1.474
Specific Gravity (g/mL)	0.920 - 0.950 @ 20°C	0.936
Saponification Value (mgKOH/g)	180 - 210	195
Peroxide Value (meq O <sub>2</sub> /kg)	Less than 5.0	CONFORMS
Iodine Value (g I <sub>2</sub> /100g)	135 - 165	148
Free Fatty Acids (% oleic)	Less than 1.0	0.07
Acid Value (mgKOH/g)	Less than 2.0	0.14
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>3.00 – 8.00</u>	<u>4.60</u>
Palmitoleic Acid	<u>C16:1 (n-7)</u>	<u>Maximum 0.5</u>	<u>0.20</u>
Stearic Acid	<u>C18:0</u>	<u>2.00 – 6.00</u>	<u>2.20</u>
Oleic Acid	<u>C18:1 (n-9)</u>	<u>11.00 – 25.00</u>	<u>19.10</u>
Linoleic Acid	<u>C18:2 (n-6)</u>	<u>15.00 – 24.00</u>	<u>21.30</u>
Alpha-Linolenic Acid	<u>C18:3 (n-3)</u>	<u>30.00 – 40.00</u>	<u>36.80</u>
Arachidic Acid	<u>C20:0</u>	<u>Maximum 3.50</u>	<u>1.10</u>
11-Eicosenoic Acid	<u>C20:1 (n-9)</u>	<u>9.00 – 17.00</u>	<u>13.30</u>

<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

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