

CERTIFICATE OF ANALYSIS (COA)

Product Name	CHIA SEED OIL
Botanical Name	Salvia hispanica
CAS #	93384-40-8
EINECS #	297-250-8
INCI Name	Salvia Hispanica (Chia) Seed Oil

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULT</u>
Appearance	Golden bright colored liquid	CONFORMS
Odour	Characteristic mild nutty odour	CONFORMS
Refractive Index	1.470 - 1.480 @ 20°C	1.474
Specific Gravity (g/mL)	0.910 - 0.933 @ 20°C	0.925
Saponification Value (mgKOH/g)	185 - 199	191
Unsaponifiable Matter (%)	Maximum 1.50	CONFORMS
Peroxide Value (meq O <sub>2</sub> /kg)	Less than 5.0	CONFORMS
Iodine Value (g I <sub>2</sub> /100g)	180.-205	186
Free Fatty Acids (% oleic)	Less than 1.0	CONFORMS
Acid Value (mgKOH/g)	Less than 2.0	CONFORMS
Solubility	Soluble in cosmetic esters and fixed oils; Insoluble in water	CONFORMS

FATTY ACID COMPOSITION:

<u>FATTY ACID</u>	<u>C-CHAIN</u>	<u>SPECIFICATIONS (%)</u>	<u>RESULTS</u>
Palmitic Acid	<u>C16:0</u>	<u>6.00 – 8.00</u>	<u>7.40</u>
Palmitoleic Acid	<u>C16:1 (n-7)</u>	<u>Maximum 0.50</u>	<u>0.20</u>
Stearic Acid	<u>C18:0</u>	<u>3.00 – 4.50</u>	<u>3.20</u>
Oleic Acid	<u>C18:1 (n-9)</u>	<u>6.00 – 9.00</u>	<u>8.30</u>
Linoleic Acid	<u>C18:2 (n-6)</u>	<u>17.00 – 22.00</u>	<u>21.20</u>
Alpha-Linolenic Acid	<u>C18:3 (n-3)</u>	<u>58.00 – 65.00</u>	<u>59.80</u>
Arachidic Acid	<u>C20:0</u>	<u>Maximum 0.50</u>	<u>0.20</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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