

## CERTIFICATE OF ANALYSIS

<b>Product Name</b>	<b>CHIA SEED OIL</b>
<b>Botanical Name</b>	Salvia hispanica
<b>Product Code</b>	PCO4073
<b>CAS #</b>	93384-40-8
<b>EINECS #</b>	297-250-8
<b>INCI Name</b>	Salvia Hispanica (Chia) Seed Oil

<b>Batch #</b>	40732104
<b>Manufacturing Date</b>	APRIL 2021
<b>Best Before Date</b>	MARCH 2023

<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>	Golden bright colored liquid	CONFORMS
<b>Odour</b>	Characteristic mild, nutty odour	CONFORMS
<b>Refractive Index</b>	1.470 - 1.480 @ 20°C	1.475
<b>Specific Gravity (g/mL)</b>	0.910 - 0.933 @ 20°C	0.923
<b>Saponification Value (mgKOH/g)</b>	185 - 199	191
<b>Unsaponifiable Matter (%)</b>	Maximum 1.50	CONFORMS
<b>Peroxide Value (meq O<sub>2</sub>/kg)</b>	Less than 5.0	CONFORMS
<b>Iodine Value (g I<sub>2</sub>/100g)</b>	180 - 205	185
<b>Free Fatty Acids (% oleic)</b>	Less than 1.0	CONFORMS
<b>Acid Value (mgKOH/g)</b>	Less than 2.0	CONFORMS
<b>Solubility</b>	Soluble in cosmetic esters and fixed oils; Insoluble in water	CONFORMS

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### **FATTY ACID COMPOSITION:**

<b><u>FATTY ACID</u></b>	<b><u>C-CHAIN</u></b>	<b><u>SPECIFICATIONS (%)</u></b>	<b><u>RESULTS (%)</u></b>
Palmitic Acid	C16:0	6.00 – 8.00	6.60
Palmitoleic Acid	C16:1 (n-7)	Maximum 0.50	0.20
Stearic Acid	C18:0	3.00 – 4.50	3.20
Oleic Acid	C18:1 (n-9)	6.00 – 9.00	7.80
Linoleic Acid	C18:2 (n-6)	17.00 – 22.00	20.90
Alpha-Linolenic Acid	C18:3 (n-3)	58.00 – 65.00	59.40
Arachidic Acid	C20:0	Maximum 0.50	0.10

<b><u>MICROBIAL ANALYSIS</u></b>	<b><u>SPECIFICATIONS</u></b>	<b><u>STANDARDS</u></b>	<b><u>RESULTS</u></b>
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

<b><u>HEAVY METAL TESTS</u></b>	<b><u>SPECIFICATIONS</u></b>	<b><u>STANDARDS</u></b>	<b><u>RESULTS</u></b>
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 24 months, quality should be checked before use.

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

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