



## CERTIFICATE OF ANALYSIS (COA)

<b>Product Name</b>	<b>CUCUMBER SEED OIL</b>
<b>Botanical Name</b>	Cucumis sativus
<b>CAS #</b>	70955-25-8; 89998-01-6
<b>EINECS #</b>	289-738-4
<b>INCI Name</b>	Cucumis sativus Seed Oil

<b>Batch #</b>	40342305
<b>Manufacturing Date</b>	MAY 2023
<b>Best Before Date</b>	APRIL 2025

<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>	Colorless to pale yellow colored liquid	CONFORMS
<b>Odour</b>	Characteristic light, pleasant odour	CONFORMS
<b>Refractive Index</b>	1.470 - 1.480 @ 20°C	1.476
<b>Specific Gravity (g/mL)</b>	0.915 - 0.930 @ 20°C	0.923
<b>Saponification Value (mgKOH/g)</b>	180 - 190	185
<b>Peroxide Value (meq O<sub>2</sub>/kg)</b>	Less than 2.0	CONFORMS
<b>Iodine Value (g I<sub>2</sub>/100g)</b>	110 - 140	120
<b>Free Fatty Acids (% oleic)</b>	Less than 1.0	0.15
<b>Acid Value (mgKOH/g)</b>	Less than 2.0	0.30
<b>Solubility</b>	Soluble in cosmetic esters and fixed oils; Insoluble in water	CONFORMS

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<u>FATTY ACID</u>	<u>C-CHAIN</u>	<u>SPECIFICATIONS (%)</u>	<u>RESULTS (%)</u>
Palmitic Acid	C16:0	9.00 – 13.00	9.30
Palmitoleic Acid	C16:1 (n-7)	0.00 – 1.00	0.30
Stearic Acid	C18:0	6.00 – 9.00	6.30
Oleic Acid	C18:1 (n-9)	14.00 – 20.00	17.80
Linoleic Acid	C18:2 (n-6)	60.00 – 68.00	64.90
Alpha-Linolenic Acid	C18:3 (n-3)	Maximum 1.00	0.50

<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

#### **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.**