

CERTIFICATE OF ANALYSIS (COA)

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

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULT</u>
Appearance	Colorless to pale yellow colored liquid	CONFORMS
Odour	Characteristic light, pleasant odour	CONFORMS
Refractive Index	1.470 - 1.480 @ 20°C	1.474
Specific Gravity (g/mL)	0.915 - 0.930 @ 20°C	0.923
Saponification Value (mgKOH/g)	180 - 190	184
Peroxide Value (meq O ₂ /kg)	Less than 2.0	CONFORMS
Iodine Value (g I ₂ /100g)	110-140	120
Free Fatty Acids (% oleic)	Less than 1.0	0.15
Acid Value (mgKOH/g)	Less than 2.0	0.30
Solubility	Soluble in cosmetic esters and fixed oils; Insoluble in water	CONFORMS

FATTY ACID COMPOSITION:

FATTY ACID	C-CHAIN	SPECIFICATIONS (%)	RESULTS
Palmitic Acid	<u>C16:0</u>	<u>9.00 – 13.00</u>	<u>9.60</u>
Palmitoleic Acid	<u>C16:1 (n-7)</u>	<u>0.00 – 1.00</u>	<u>0.30</u>
Stearic Acid	<u>C18:0</u>	<u>6.00 – 9.00</u>	<u>6.50</u>
Oleic Acid	<u>C18:1 (n-9)</u>	<u>14.00 – 20.00</u>	<u>17.90</u>
Linoleic Acid	<u>C18:2 (n-6)</u>	<u>60.00 – 68.00</u>	<u>64.60</u>
Alpha-Linolenic Acid	<u>C18:3 (n-3)</u>	<u>Maximum 1.00</u>	<u>0.50</u>

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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