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CERTIFICATE OF ANALYSIS (COA)

Product Name	CUCUMBER SEED OIL
Botanical Name	Cucumis sativus
Product Code	PCO4034
CAS #	70955-25-8; 89998-01-6
EINECS #	289-738-4
INCI Name	Cucumis sativus Seed Oil

Batch #	40342309
Manufacturing Date	SEPTEMBER 2023
Best Before Date	AUGUST 2025

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
Appearance	Colorless to pale yellow colored liquid	CONFORMS
Odour	Characteristic light, pleasant odour	CONFORMS
Refractive Index	1.470 - 1.480 @ 20°C	1.477
Specific Gravity (g/mL)	0.915 - 0.930 @ 20°C	0.922
Saponification Value (mgKOH/g)	180 - 190	185
Peroxide Value (meq O₂/kg)	Less than 2.0	CONFORMS
Iodine Value (g I₂/100g)	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

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FATTY ACID COMPOSITION:

<u>FATTY ACID</u>	<u>C-CHAIN</u>	<u>SPECIFICATIONS (%)</u>	<u>RESULTS (%)</u>
Palmitic Acid	C16:0	9.00 – 13.00	9.20
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	17.90
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.

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