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CERTIFICATE OF ANALYSIS (COA)

Product Name	**ONION OIL**
Botanical Name	Allium cepa
Product Code	4282
INCI Name	Allium Cepa Seed Oil

Manufacturing Date	MARCH 2026
Best Before Date	FEBRUARY 2028

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

PROPERTIES	SPECIFICATIONS	RESULTS
Appearance	Pale yellow to amber colored liquid	CONFORMS
Odour	Slightly pungent, characteristic onion aroma	CONFORMS
Refractive Index	1.455 - 1.480 @ 20°C	1.465
Specific Gravity (g/mL)	0.905 - 0.935 @ 20°C	0.922
Moisture and Insoluble Impurities (%)	Maximum 0.1	CONFORMS
Saponification Value (mgKOH/g)	180 -200	190
Peroxide Value (meq O_2/kg)	Less than 5.0	CONFORMS
Iodine Value (g I_2/100g)	100 - 145	125
Acid Value (mgKOH/g)	Less than 1.0	0.1
Solubility	Soluble in cosmetic esters and fixed oils; Insoluble in water	CONFORMS

FATTY ACID COMPOSITION:

FATTY ACID	C-CHAIN	SPECIFICATIONS (%)	RESULTS (%)
Palmitic Acid	C16:0	5.00 – 14.00	7.10
Stearic Acid	C18:0	1.50 – 5.00	1.90
Oleic Acid	C18:1 (n-9)	24.00 – 36.00	31.60
Linoleic Acid	C18:2 (n-6)	46.00 – 62.00	56.10
Erucic Acid	C22:1 (n-9)	1.00 – 4.00	2.30

MICROBIAL ANALYSIS	SPECIFICATIONS	STANDARDS	RESULTS
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

HEAVY METAL TESTS	SPECIFICATIONS	STANDARDS	RESULTS
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.