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CERTIFICATE OF ANALYSIS (COA)

Product Name	BROCCOLI SEED OIL
Botanical Name	Brassica oleracea var. italica
Product Code	PCO4032
CAS #	223749-36-8
INCI Name	Brassica Oleracea Italica (Broccoli) Seed Oil

Batch #	40322312
Manufacturing Date	DECEMBER 2023
Best Before Date	NOVEMBER 2025

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
Appearance	Pale yellow to golden yellow colored liquid	CONFORMS
Odour	Slightly herbaceous, characteristic mild odour	CONFORMS
Refractive Index	1.465 - 1.475 @ 20°C	1.468
Specific Gravity (g/mL)	0.910 - 0.920 @ 20°C	0.915
Saponification Value (mgKOH/g)	168 - 190	178
Peroxide Value (meq O₂/kg)	Less than 5.0	CONFORMS
Iodine Value (g I₂/100g)	90 - 120	97
Acid Value (mgKOH/g)	Less than 3.0	CONFORMS
Solubility	Soluble in C 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	1.00 – 5.00	2.10
Stearic Acid	C18:0	Maximum 2.00	0.70
Oleic Acid	C18:1 (n-9)	5.00 – 18.00	17.40
Linoleic Acid	C18:2 (n-6)	5.00 – 15.00	14.40
Alpha-Linolenic Acid	C18:3 (n-3)	6.00 – 12.00	10.80
11-Eicosenoic Acid	C20:1 (n-9)	2.00 – 10.00	5.20
Erucic Acid	C22:1 (n-9)	42.00 – 60.00	46.70

<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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