



CERTIFICATE OF ANALYSIS (COA)

Product Name	BLACKBERRY SEED OIL
Botanical Name	Rubus fruticosus
CAS #	84787-69-9
EINECS #	284-110-6
INCI Name	Rubus fruticosus (Blackberry) Seed Oil

Batch #	40052212
Manufacturing Date	DECEMBER 2022
Best Before Date	NOVEMBER 2024

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
Appearance	Pale greenish golden to green colored liquid	CONFORMS
Odour	Mild characteristic, sweet nutty odour	CONFORMS
Specific Gravity (g/mL)	0.890 - 0.935 @ 20°C	0.916
Refractive Index	1.466 - 1.486 @ 20°C	1.473
Moisture (%)	Less than 0.1%	0.03
Peroxide Value (meq O₂/kg)	Less than 15.0	CONFORMS
Acid Value (mgKOH/g)	Less than 5.0	CONFORMS
Solubility	Soluble in cosmetic esters and fixed oils; Insoluble in water	CONFORMS

<u>FATTY ACID</u>	<u>C-CHAIN</u>	<u>SPECIFICATIONS (%)</u>	<u>RESULTS (%)</u>
Palmitic Acid	C16:0	3.00 – 8.00	3.30
Stearic Acid	C18:0	1.50 – 2.80	1.80
Oleic Acid	C18:1 (n-9)	7.00 – 15.00	13.50
Linoleic Acid	C18:2 (n-6)	53.00 – 60.00	56.90
Alpha-Linolenic Acid	C18:3 (n-3)	22.00 – 28.00	23.90

<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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