

CERTIFICATE OF ANALYSIS

Product Name	BLUEBERRY ESSENTIAL OIL
Botanical Name	Vaccinium corymbosum
Product Code	E107
INCI Name	Vaccinium Corymbosum Seed Oil

Batch #	40792103
Manufacturing Date	MARCH 2021
Best Before Date	FEBRUARY 2023

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
Appearance	Light green to dark greenish yellow colored liquid	CONFORMS
Odour	Characteristic mild blueberry odour	CONFORMS
Refractive Index	1.470 - 1.490 @ 20°C	1.482
Specific Gravity (g/mL)	0.915 - 0.930 @ 20°C	0.923
Saponification Value (mgKOH/g)	175 - 200	181
Peroxide Value (meq O₂/kg)	Less than 10.0	CONFORMS
Iodine Value (g I₂/100g)	139 - 176	155
Acid Value (mgKOH/g)	Less than 2.0	CONFORMS
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	3.50 – 7.00	5.10
Stearic Acid	C18:0	0.60 – 6.00	2.60
Oleic Acid	C18:1 (n-9)	16.00 – 25.00	21.60
Linoleic Acid	C18:2 (n-6)	41.00 – 57.00	44.90
Alpha-Linolenic Acid	C18:3 (n-3)	16.00 – 27.00	24.20

<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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