



### CERTIFICATE OF ANALYSIS (COA)

<b>Product Name</b>	<b>ELDERBERRY SEED OIL</b>
<b>Botanical Name</b>	Sambucus nigra
<b>CAS #</b>	68916-55-2 ; 84603-58-7
<b>EINECS #</b>	283-259-4
<b>INCI Name</b>	Sambucus Nigra Seed Oil

<b>Batch #</b>	41402210
<b>Manufacturing Date</b>	MAY 2023
<b>Best Before Date</b>	APRIL 2025

<b>Part Used</b>	Seeds
<b>Extraction Method</b>	Cold Pressed
<b>Quality</b>	100% Pure and Natural

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
<b>Appearance</b>	Dark amber colored liquid	CONFORMS
<b>Odour</b>	Characteristic slightly fruity aroma	CONFORMS
<b>Refractive Index</b>	1.475 - 1.485 @ 20°C	1.478
<b>Specific Gravity (g/mL)</b>	0.920 - 0.940 @ 20°C	0.933
<b>Saponification Value (mgKOH/g)</b>	180 - 210	187
<b>Peroxide Value (meq O<sub>2</sub>/kg)</b>	Less than 10.0	CONFORMS
<b>Iodine Value (g I<sub>2</sub>/100g)</b>	130 - 190	157
<b>Acid Value (mgKOH/g)</b>	Less than 4.0	CONFORMS
<b>Solubility</b>	Soluble in cosmetic esters and fixed oils; Insoluble in water	CONFORMS

**FATTY ACID COMPOSITION:**

<b><u>FATTY ACID</u></b>	<b><u>C-CHAIN</u></b>	<b><u>SPECIFICATIONS (%)</u></b>	<b><u>RESULTS (%)</u></b>
<b>Palmitic Acid</b>	C16:0	5.00 – 10.00	6.10
<b>Stearic Acid</b>	C18:0	0.80 – 4.50	1.30
<b>Oleic Acid</b>	C18:1 (n-9)	8.00 – 14.00	12.50
<b>Linoleic Acid</b>	C18:2 (n-6)	37.00 – 45.00	41.90
<b>Alpha-Linolenic Acid</b>	C18:3 (n-3)	28.00 – 45.00	37.20

<b><u>MICROBIAL ANALYSIS</u></b>	<b><u>SPECIFICATIONS</u></b>	<b><u>STANDARDS</u></b>	<b><u>RESULTS</u></b>
<b>Aerobic Mesophilic Bacterial Count</b>	< 100 CFU/g	ISO 21149	CONFORMS
<b>Yeast and Mould</b>	< 10 CFU/g	ISO 16212	CONFORMS
<b>Candida albicans</b>	ABSENT / 1g	ISO 18416	CONFORMS
<b>Escherichia coli</b>	ABSENT / 1g	ISO 21150	CONFORMS
<b>Pseudomonas aeruginosa</b>	ABSENT / 1g	ISO 22717	CONFORMS
<b>Staphylococcus aureus</b>	ABSENT / 1g	ISO 22718	CONFORMS

<b><u>HEAVY METAL TESTS</u></b>	<b><u>SPECIFICATIONS</u></b>	<b><u>STANDARDS</u></b>	<b><u>RESULTS</u></b>
<b>Lead: Pb (mg/kg or ppm)</b>	< 10 ppm	na	CONFORMS
<b>Arsenic: As (mg/kg or ppm)</b>	< 2 ppm	na	CONFORMS
<b>Mercury: Hg (mg/kg or ppm)</b>	< 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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