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CERTIFICATE OF ANALYSIS (COA)

Product Name	SIBERIAN PINE NUT OIL
Botanical Name	Pinus sibirica
Product Code	PCO4137
INCI Name	Pinus Sibirica Seed Oil

Batch #	41372304
Manufacturing Date	APRIL 2023
Best Before Date	MARCH 2025

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
Appearance	Bright yellow to golden colored liquid	CONFORMS
Odour	Fresh, softly nutty aroma	CONFORMS
Refractive Index	1.460 - 1.480 @ 20°C	1.469
Specific Gravity (g/mL)	0.910 - 0.940 @ 20°C	0.928
Saponification Value (mgKOH/g)	190 - 250	CONFORMS
Peroxide Value (meq O₂/kg)	Less than 5.0	CONFORMS
Iodine Value (g I₂/100g)	130 - 170	148
Acid Value (mgKOH/g)	Less than 4.0	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 – 10.00	4.40
Stearic Acid	C18:0	1.00 – 6.00	2.70
Oleic Acid	C18:1 (n-9)	20.00 – 35.00	27.30
Linoleic Acid	C18:2 (n-6)	40.00 – 66.00	50.40
Pinolenic Acid	C18:3	12.00 – 24.00	14.20

<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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