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## CERTIFICATE OF ANALYSIS (COA)

<b>Product Name</b>	<b>DRAGONFRUIT SEED OIL</b>
<b>Botanical Name</b>	Hylocereus undatus
<b>Product Code</b>	PCO4095
<b>INCI Name</b>	Hylocereus Undatus (Dragonfruit) Seed Oil

<b>Batch #</b>	40952308
<b>Manufacturing Date</b>	AUGUST 2023
<b>Best Before Date</b>	JULY 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>	Pale yellow to golden yellow colored liquid	CONFORMS
<b>Odour</b>	Characteristic mild odour	CONFORMS
<b>Refractive Index</b>	1.450 - 1.490 @ 20°C	1.467
<b>Specific Gravity (g/mL)</b>	0.890 - 0.940 @ 20°C	0.914
<b>Saponification Value (mgKOH/g)</b>	180 - 210	194
<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>	50 - 120	CONFORMS
<b>Acid Value (mgKOH/g)</b>	Maximum 2.0	CONFORMS
<b>Solubility</b>	Soluble in cosmetic esters and fixed oils; Insoluble in water	CONFORMS

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### **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>
Palmitic Acid	C16:0	15.00 – 18.00	15.70
Palmitoleic Acid	C16:1	Maximum 1.0	0.40
Stearic Acid	C18:0	4.00 – 8.00	4.40
Oleic Acid	C18:1 (n-9)	19.00 – 24.00	23.20
Linoleic Acid	C18:2 (n-6)	45.00 – 55.00	53.20
Alpha-Linolenic Acid	C18:3 (n-3)	Maximum 2.00	1.50

<b><u>MICROBIAL ANALYSIS</u></b>	<b><u>SPECIFICATIONS</u></b>	<b><u>STANDARDS</u></b>	<b><u>RESULTS</u></b>
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

<b><u>HEAVY METAL TESTS</u></b>	<b><u>SPECIFICATIONS</u></b>	<b><u>STANDARDS</u></b>	<b><u>RESULTS</u></b>
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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