

## CERTIFICATE OF ANALYSIS

<b>Product Name</b>	<b>CACAY OIL</b>
<b>Botanical Name</b>	Caryodendron orinocense
<b>Product Code</b>	PCO4097
<b>CAS #</b>	1453469-52-7
<b>INCI Name</b>	Caryodendron Orinocense Seed Oil

<b>Batch #</b>	40972601
<b>Manufacturing Date</b>	JANUARY 2026
<b>Best Before Date</b>	DECEMBER 2027

<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 amber colored liquid	CONFORMS
<b>Odour</b>	Characteristic mild odour	CONFORMS
<b>Refractive Index</b>	1.460 - 1.490 @ 20°C	1.466
<b>Specific Gravity (g/mL)</b>	0.900 - 0.960 @ 20°C	0.921
<b>Saponification Value (mgKOH/g)</b>	180 - 220	193
<b>Peroxide Value (meq O<sub>2</sub>/kg)</b>	Less than 10.0	CONFORMS
<b>Free Fatty Acids (% oleic)</b>	Less than 1.5	CONFORMS
<b>Solubility</b>	Soluble in cosmetic esters and fixed oils; Insoluble in water	CONFORMS

Shelf life is guaranteed for three years from the date of production if the product is stored in the unopened original container between 15°C - 30°C, protected from light. Because this material is sensitive to oxidation, it is saturated with nitrogen and sealed with nitrogen atmosphere for protection. If containers are opened for sampling, be sure to refill atmosphere with nitrogen. Containers that have been opened should be tested at least yearly to ensure potency. Although we believe the above information to be accurate based on the information available to Avena Lab, it is the responsibility of the customer and user of the material to perform its own investigation and due diligence prior to use to verify that the product purchased from Avena Lab meets their quality requirements and is appropriate for the use to which the product is to be put. The information provided above shall be considered effective only for the lot with which the information is being provided. Use and purchase of this material is subject to Avena Lab standard terms and conditions, which supersede any conflicting terms contained on Buyer's purchase order or any document or instrument supplied by Buyer.

**FATTY ACID COMPOSITION:**

<u>FATTY ACID</u>	<u>C-CHAIN</u>	<u>SPECIFICATIONS (%)</u>	<u>RESULTS (%)</u>
<b>Myristic Acid</b>	C14:0	Maximum 0.30	0.10
<b>Palmitic Acid</b>	C16:0	7.00 – 13.00	9.70
<b>Palmitoleic Acid</b>	C16:1 (n-7)	Maximum 0.50	0.10
<b>Stearic Acid</b>	C18:0	2.00 – 5.00	2.60
<b>Oleic Acid</b>	C18:1 (n-9)	10.00 – 20.00	17.60
<b>Linoleic Acid</b>	C18:2 (n-6)	58.00 – 85.00	69.40
<b>Arachidic Acid</b>	C20:0	Maximum 0.70	0.10

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

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