

## CERTIFICATE OF ANALYSIS (COA)

Product Name	CACAY OIL
Botanical Name	Caryodendron orinocense
CAS #	1453469-52-7
EINECS #	-
INCI Name	Caryodendron Orinocense Seed Oil

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

<u>PROPERTIES</u>	SPECIFICATIONS	RESULT
Appearance	Pale yellow to amber colored liquid	CONFORMS
Odour	Characteristic mild odour	CONFORMS
Refractive Index	1.460 - 1.490 @ 20°C	1.470
Specific Gravity (g/mL)	0.910 - 0.920 @ 20°C	0.915
Saponification Value (mgKOH/g)	180 - 220	178
Peroxide Value (meq O2/kg)	Less than 10.0	CONFORMS
Iodine Value (g I2/100g)	90 - 120	97
Acid Value (mgKOH/g)	Less than 3.0	CONFORMS
Solubility	Soluble in cosmetic esters and fixed oils; Insoluble in water	CONFORMS

## FATTY ACID COMPOSITION:

FATTY ACID	C-CHAIN	SPECIFICATIONS (%)	<u>RESULTS</u>
Palmitic Acid	<u>C16:0</u>	<u>1.00 – 5.00</u>	<u>2.30</u>
Stearic Acid	<u>C18:0</u>	Maximum 2.00	0.90
Oleic Acid	C18:1 (n-9)	<u>5.00 – 18.00</u>	<u>17.10</u>
Linoleic Acid	C18:2 (n-6)	<u>5.00 – 15.00</u>	<u>14.10</u>
Alpha-Linolenic Acid	C18:3 (n-3)	<u>6.00 – 12.00</u>	<u>10.90</u>
11-Eicosenoic Acid	C20:1 (n-9)	<u>2.00 - 10.00</u>	<u>6.30</u>
Erucic Acid	C22:1 (n-9)	<u>42.00 – 60.00</u>	<u>46.90</u>



MICROBIAL ANALYSIS	SPECIFICATIONS	STANDARDS	RESULTS
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

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

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