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CERTIFICATE OF ANALYSIS (COA)

Product Name	ANDIROBA OIL
Botanical Name	Carapas guianensis
Product Code	PCO4039
CAS #	352458-32-3; 223748-14-9
INCI Name	Carapa Guianensis Seed Oil

Batch #	40392311
Manufacturing Date	NOVEMBER 2023
Best Before Date	OCTOBER 2025

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
Appearance	Golden to dark yellow colored liquid	CONFORMS
Odour	Characteristic mild, sweet, earthy odour	CONFORMS
Refractive Index	1.460 - 1.480 @ 20°C	1.472
Specific Gravity (g/mL)	0.900 - 0.950 @ 25°C	0.930
Moisture (%)	Maximum 0.2	CONFORMS
Saponification Value (mgKOH/g)	160 - 190	174
Peroxide Value (meq O₂/kg)	Less than 10.0	CONFORMS
Iodine Value (g I₂/100g)	60 - 85	72
Free Fatty Acids (% oleic)	Less than 4.0	1.70
Acid Value (mgKOH/g)	Less than 8.0	3.40
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	22.00 – 35.00	28.90
Palmitoleic Acid	C16:1 (n-7)	0.50 – 3.00	1.10
Stearic Acid	C18:0	Maximum 5.00	2.40
Oleic Acid	C18:1 (n-9)	48.00 – 60.00	56.80
Linoleic Acid	C18:2 (n-6)	5.50 – 10.00	8.80
Alpha-Linolenic Acid	C18:3 (n-3)	Maximum 1.50	0.90

<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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