

TECHNICAL DATA SHEET (TDS)

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

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>
Appearance	Golden to dark yellow colored liquid
Odour	Characteristic mild, sweet, earthy odour
Refractive Index	1.460 - 1.480 @ 20°C
Specific Gravity (g/mL)	0.900 - 0.950 @ 25°C
Moisture (%)	Maximum 0.2
Saponification Value (mgKOH/g)	160 - 190
Peroxide Value (meq O₂/kg)	Less than 10.0
Iodine Value (g I₂/100g)	60 - 85
Free Fatty Acids (% oleic)	Less than 4.0
Acid Value (mgKOH/g)	Less than 8.0
Solubility	Soluble in cosmetic esters and fixed oils; Insoluble in water

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FATTY ACID COMPOSITION:

<u>FATTY ACID</u>	<u>C-CHAIN</u>	<u>SPECIFICATIONS (%)</u>
Palmitic Acid	C16:0	22.00 – 35.00
Palmitoleic Acid	C16:1 (n-7)	0.50 – 3.00
Stearic Acid	C18:0	Maximum 5.00
Oleic Acid	C18:1 (n-9)	48.00 – 60.00
Linoleic Acid	C18:2 (n-6)	5.50 – 10.00
Alpha-Linolenic Acid	C18:3 (n-3)	Maximum 1.50

<u>MICROBIAL ANALYSIS</u>	<u>SPECIFICATIONS</u>	<u>STANDARDS</u>
Aerobic Mesophilic Bacterial Count	< 100 CFU/g	ISO 21149
Yeast and Mould	< 10 CFU/g	ISO 16212
Candida albicans	ABSENT / 1g	ISO 18416
Escherichia coli	ABSENT / 1g	ISO 21150
Pseudomonas aeruginosa	ABSENT / 1g	ISO 22717
Staphylococcus aureus	ABSENT / 1g	ISO 22718

<u>HEAVY METAL TESTS</u>	<u>SPECIFICATIONS</u>	<u>STANDARDS</u>
Lead: Pb (mg/kg or ppm)	< 10 ppm	na
Arsenic: As (mg/kg or ppm)	< 2 ppm	na
Mercury: Hg (mg/kg or ppm)	< 1 ppm	na

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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