

CERTIFICATE OF ANALYSIS (COA)

Product Name	AÇAÍ BERRY OIL
Botanical Name	Euterpe oleracea
CAS #	861902-11-6
INCI Name	Euterpe Oleracea (Acai) Fruit Oil
Part Used	Whole Berry
Extraction Method	Cold Pressed
Quality	100% Pure and Natural

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULT</u>
Appearance	Pale green to dark green colored liquid	CONFORMS
Odour	Characteristic mild, pleasant, sweet odour	CONFORMS
Refractive Index	1.455 - 1.475 @ 20°C	1.464
Specific Gravity (g/mL)	0.910 - 0.950 @ 20°C	0.926
Saponification Value (mgKOH/g)	175 – 205	193
Peroxide Value (meq O2/kg)	Less than 10.0	CONFORMS
Iodine Value (g I2/100g)	90 – 140	114
Acid Value (mgKOH/g)	Less than 8.0	CONFORMS
Solubility	Soluble in cosmetic esters and fixed oils; Insoluble in water	CONFORMS

FATTY ACID COMPOSITION:

<u>FATTY ACID</u>	<u>C-CHAIN</u>	<u>SPECIFICATIONS (%)</u>	<u>RESULTS</u>
Palmitic Acid	<u>C16:0</u>	<u>20.00 – 26.00</u>	<u>22.00</u>
Palmitoleic Acid	<u>C16:1 (n-7)</u>	<u>2.00 – 5.00</u>	<u>2.10</u>
Stearic Acid	<u>C18:0</u>	<u>1.00 – 3.00</u>	<u>1.20</u>
Oleic Acid	<u>C18:1 (n-9)</u>	<u>50.00 – 65.00</u>	<u>58.90</u>
Linoleic Acid	<u>C18:2 (n-6)</u>	<u>12.00 – 15.00</u>	<u>14.40</u>
Alpha-Linolenic Acid	<u>C18:3 (n-3)</u>	<u>0.30 – 1.00</u>	<u>0.60</u>

<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

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