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CERTIFICATE OF ANALYSIS (COA)

Product Name	BABASSU OIL
Botanical Name	Orbignya oleifera
Product Code	PCO4030
CAS #	91078-92-1
EINECS #	293-376-2
INCI Name	Orbignya Oleifera Seed Oil

Batch #	40302311
Manufacturing Date	NOVEMBER 2023
Best Before Date	OCTOBER 2025

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
Appearance	Light yellow colored liquid at room temperature; off white soft fat at temperatures less than 20°C	CONFORMS
Odour	Characteristic mild odour	CONFORMS
Specific Gravity (g/mL)	0.905 - 0.915 @ 20°C	0.911
Refractive Index	1.450 - 1.490 @ 20°C	1.467
Saponification Value (mgKOH/g)	240 - 260	247
Peroxide Value (meq O₂/kg)	Less than 5.0	CONFORMS
Iodine Value (g I₂/100g)	13 - 18	15
Free Fatty Acids (% oleic)	Less than 1.0	CONFORMS
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>
Caprylic Acid	C8:0	2.00 – 11.00	5.90
Capric Acid	C10:0	1.00 – 8.00	4.90
Lauric Acid	C12:0	40.00 – 48.00	43.40
Myristic Acid	C14:0	15.00 – 20.00	17.30
Palmitic Acid	C16:0	7.00 – 11.00	8.90
Stearic Acid	C18:0	1.00 – 11.00	4.50
Oleic Acid	C18:1 (n-9)	10.00 – 15.00	14.00

<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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