



info@natureinbottle.com  www.natureinbottle.com

CERTIFICATE OF ANALYSIS (COA)

Product Name	BATANA OIL
Botanical Name	Elaeis oleifera
Product Code	PCO4134
INCI Name	Elaeis Oleifera Kernel Oil

Batch #	41342505
Manufacturing Date	MAY 2025
Best Before Date	APRIL 2027

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
Appearance	Pale greenish brown to amber brown colored liquid	CONFORMS
Odour	Characteristic mild odour	CONFORMS
Refractive Index	1.450 - 1.490 @ 20°C	1.466
Specific Gravity (g/mL)	0.890 - 0.940 @ 20°C	0.928
Saponification Value (mgKOH/g)	175 - 210	190
Peroxide Value (meq O₂/kg)	Less than 10.0	CONFORMS
Free Fatty Acids (% oleic)	Less than 2.0	CONFORMS
Iodine Value (g I₂/100g)	90 - 120	CONFORMS
Moisture (%)	Maximum 0.1	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>
Lauric Acid	C12:0	3.00 – 7.00	5.20
Myristic Acid	C14:0	2.00 – 5.00	2.90
Palmitic Acid	C16:0	6.00 – 14.00	8.30
Stearic Acid	C18:0	2.00 – 6.00	3.60
Oleic Acid	C18:1 (n-9)	45.00 – 65.00	50.60
Linoleic Acid	C18:2 (n-6)	22.00 – 32.00	27.60
Alpha-Linolenic Acid	C18:3 (n-3)	Maximum 2.00	0.70

<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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