

CERTIFICATE OF ANALYSIS (COA)

Product Name	BAOBAB OIL
Botanical Name	Adansonia digitata
CAS #	91745-12-9; 225233-93-2
EINECS #	294-680-8
INCI Name	Adansonia digitata (Baobab) Seed Oil

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULT</u>
Appearance	Golden yellow colored liquid	CONFORMS
Odour	Characteristic slightly nutty, mild odour	CONFORMS
Refractive Index	1.462 - 1.472 @ 20°C	1.468
Specific Gravity (g/mL)	0.910 - 0.940 @ 20°C	0.926
Saponification Value (mgKOH/g)	140 – 205	179
Peroxide Value (meq O ₂ /kg)	Less than 10.0	CONFORMS
Iodine Value (g I ₂ /100g)	65 - 95	75
Free Fatty Acids (% oleic)	Less than 0.5	CONFORMS
Acid Value (mgKOH/g)	Less than 1.5	CONFORMS
Solubility	Soluble in cosmetic esters and fixed oils; Insoluble in water	CONFORMS

FATTY ACID COMPOSITION:

FATTY ACID	<u>C-CHAIN</u>	<u>SPECIFICATIONS (%)</u>	<u>RESULTS</u>
Palmitic Acid	<u>C16:0</u>	<u>18.00 – 30.00</u>	<u>22.20</u>
Stearic Acid	<u>C18:0</u>	<u>2.00 – 9.00</u>	<u>3.00</u>
Oleic Acid	<u>C18:1 (n-9)</u>	<u>30.00 – 44.00</u>	<u>37.20</u>
Linoleic Acid	<u>C18:2 (n-6)</u>	<u>25.00 – 37.00</u>	<u>34.80</u>
Alpha-Linolenic Acid	<u>C18:3 (n-3)</u>	<u>1.00 – 3.00</u>	<u>1.40</u>
Arachidic Acid	<u>C20:0</u>	<u>0.00 – 2.00</u>	<u>0.80</u>

MICROBIAL ANALYSIS	<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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