

CERTIFICATE OF ANALYSIS (COA)

Product Name	KALAHARI MELON SEED OIL
Botanical Name	Citrullus lanatus
CAS #	90244-99-8
EINECS #	290-802-9
INCI Name	Citrullus Lanatus (Watermelon) Seed Oil

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
Appearance	Pale yellow to golden yellow colored liquid	CONFORMS
Odour	Characteristic odour	CONFORMS
Refractive Index	1.465 - 1.485 @ 20°C	1.476
Specific Gravity (g/mL)	0.900 - 0.940 @ 20°C	0.929
Saponification Value (mgKOH/g)	180 - 200	192
Peroxide Value (meqO <sub>2</sub> /kg)	Less than 3.0	CONFORMS
Iodine Value (g I <sub>2</sub> /100g)	120 - 135	CONFORMS
Acid Value (mgKOH/g)	Less than 2.0	CONFORMS
Solubility	Soluble in cosmetic esters and fixed oils; Insoluble in water	CONFORMS

FREE ACID COMPOSITION

FATTY ACID	C-CHAIN	SPECIFICATIONS (%)	RESULTS (%)
Palmitic Acid	C16:0	8.00 – 13.00	8.60
Palmitoleic Acid	C16:1	Maximum 1.00	0.30
Stearic Acid	C18:0	5.00 – 11.00	7.10
Oleic Acid	C18:1 (n-9)	10.00 – 29.00	15.80
Linoleic Acid	C18:2 (n-6)	55.00 – 70.00	65.90
Alpha-Linolenic Acid	C18:3 (n-3)	Maximum 2.0	1.20

<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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