

CERTIFICATE OF ANALYSIS (COA)

Product Name	CAMELLIA (TEA SEED) OIL
Botanical Name	Camellia oleifera
CAS #	225233-97-6
EINECS #	-
INCI Name	Camellia Oleifera Seed Oil

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULT</u>
Appearance	Clear pale yellow to golden yellow colored liquid	CONFORMS
Odour	Mild vegetable oil odour	CONFORMS
Refractive Index	1.460 - 1.490 @ 20°C	1.475
Specific Gravity (g/mL)	0.900 - 0.930 @ 20°C	0.920
Saponification Value (mgKOH/g)	185 - 196	191
Peroxide Value (meq O ₂ /kg)	Less than 5.0	CONFORMS
Iodine Value (g I ₂ /100g)	80 - 94	87
Free Fatty Acids (% oleic)	Less than 0.25	0.10
Acid Value (mgKOH/g)	Less than 0.50	0.20
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>6.00 - 10.00</u>	<u>6.50</u>
Stearic Acid	<u>C18:0</u>	<u>0.80 - 3.00</u>	<u>1.20</u>
Oleic Acid	<u>C18:1 (n-9)</u>	<u>72.00 - 87.00</u>	<u>79.70</u>
Linoleic Acid	<u>C18:2 (n-6)</u>	<u>5.00 - 14.00</u>	<u>11.80</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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