

### CERTIFICATE OF ANALYSIS (COA)

Product Name	LAUREL BERRY OIL
Botanical Name	Laurus nobilis
CAS #	8007-48-5
EINECS #	-
INCI Name	Laurus Nobilis Fruit Oil

Part Used	Fruits
Extraction Method	-
Quality	100% Pure and Natural

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
Appearance	Pale green to olive green colored thick liquid	CONFORMS
Odour	Characteristic laurel aroma	CONFORMS
Refractive Index	1.460 - 1.480 @ 20°C	1.474
Specific Gravity (g/mL)	0.905 - 0.929 @ 20°C	0.918
Saponification Value (mgKOH/g)	198 - 206	CONFORMS
Peroxide Value (meqO <sub>2</sub> /kg)	Less than 5.0	CONFORMS
Iodine Value (g I <sub>2</sub> /100g)	60 - 85	CONFORMS
Moisture (%)	Maximum 0.1	CONFORMS
Essential Oil Content (%)	1.0 – 3.0	1.7
Solubility	Soluble in cosmetic esters and fixed oils; Insoluble in water	CONFORMS

### FREE ACID COMPOSITION

FATTY ACID	C-CHAIN	SPECIFICATIONS (%)	RESULTS (%)
Lauric Acid	C12:0	17.00 – 27.00	21.90
Myristic Acid	C14:0	0.50 – 1.70	1.10
Palmitic Acid	C16:0	12.00 – 20.00	14.50
Stearic Acid	C18:0	1.00 – 3.00	1.20
Oleic Acid	C18:1 (n-9)	30.00 – 41.00	35.80
Linoleic Acid	C18:2 (n-6)	17.20 – 27.10	23.60
Alpha-Linolenic Acid	C18:3 (n-3)	Maximum 2.00	1.10

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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