

CERTIFICATE OF ANALYSIS (COA)

Product Name	ROSEHIP OIL
Botanical Name	Rosa rubiginosa (syn Rosa eglandaria)
CAS #	84603-93-0 ; 84696-47-9 ; 92347-25-6
EINECS #	283-652-0 ; 296-213-3
INCI Name	Rosa Mosqueta / Rosa Rubiginosa (Rose Hip) Seed Oil

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
Appearance	Reddish amber to deep red-orange colored liquid	CONFORMS
Odour	Characteristic mild odour	CONFORMS
Refractive Index	1.467 - 1.487 @ 20°C	1.474
Specific Gravity (g/mL)	0.920 - 0.940 @ 20°C	0.930
Saponification Value (mgKOH/g)	175 - 210	185
Iodine Value (g I ₂ /100g)	150 - 190	173
Peroxide Value (meq O ₂ /kg)	Less than 5.0	CONFORMS
Acid Value (mgKOH/g)	Less than 1.0	0.15
Moisture (%)	Less than 0.1	0.01
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	18.00 - 26.00	2.30
Stearic Acid	C18:0	8.00 - 12.00	1.20
Oleic Acid	C18:1 (n-9)	16.00 - 22.00	16.60
Linoleic Acid	C18:2 (n-6)	40.00 - 56.00	45.90
Alpha-Linolenic Acid	C18:3 (n-3)	22.00 - 38.00	33.20
Arachidic Acid	C20:0	Maximum 1.00	0.40

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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