

CERTIFICATE OF ANALYSIS (COA)

Product Name	OAT OIL
Botanical Name	Avena sativa
CAS #	84012-26-0
EINECS #	281-672-4
INCI Name	Avena Sativa (Oat) Kernel Oil

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
Appearance	Pale yellow to golden brown colored liquid	CONFORMS
Odour	Natural, characteristic oat-like odour	CONFORMS
Refractive Index	1.465 - 1.475 @ 20°C	1.469
Specific Gravity (g/mL)	0.890 - 0.920 @ 20°C	0.906
Saponification Value (mgKOH/g)	185 - 200	192
Peroxide Value (meqO ₂ /kg)	Less than 5.0	CONFORMS
Iodine Value (g I ₂ /100g)	86 - 123	101
Acid Value (mgKOH/g)	Less than 5.0	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	10.00 – 20.00	13.10
Stearic Acid	C18:0	1.00 – 4.00	1.10
Oleic Acid	C18:1 (n-9)	35.00 – 47.00	44.20
Linoleic Acid	C18:2 (n-6)	30.00 – 47.00	39.60
Arachidic Acid	C20:0	1.00 – 3.00	1.30

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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