

CERTIFICATE OF ANALYSIS (COA)

Product Name	MEADOWFOAM SEED OIL
Botanical Name	Limnanthes alba
CAS #	169407-13-5; 153065-40-8
EINECS #	-
INCI Name	Limnanthes alba (Meadowfoam) Seed oil

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
Appearance	Pale yellow to light golden colored liquid	CONFORMS
Odour	Almost odorless	CONFORMS
Refractive Index	1.465 - 1.475 @ 20°C	1.470
Specific Gravity (g/mL)	0.900 - 0.920 @ 20°C	0.914
Saponification Value (mgKOH/g)	160 - 175	165
Peroxide Value (meqO <sub>2</sub> /kg)	Less than 1.0	CONFORMS
Iodine Value (g I <sub>2</sub> /100g)	85 - 95	88
Acid Value (mgKOH/g)	Less than 0.5	0.1
Solubility	Soluble in cosmetic esters and fixed oils; Insoluble in water	CONFORMS

FREE ACID COMPOSITION

FATTY ACID	C-CHAIN	SPECIFICATIONS (%)	RESULTS (%)
11-Eicosenoic Acid	C20:1 (n-9)	58.00 – 75.00	64.30
Docosenoic Acid	C22:1	13.00 – 20.00	15.90
Docosadienoic Acid	C22:2	14.00 – 21.00	18.80

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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