

CERTIFICATE OF ANALYSIS (COA)

Product Name	FENNEL SWEET ESSENTIAL OIL
Botanical Name	Foeniculum vulgare
CAS #	8006-84-6 ; 84455-29-8
EINECS #	282-892-3
INCI Name	Foeniculum Vulgare Dulce (Fennel) Seed Oil

Part Used	Seeds
Extraction Method	Steam Distilled Essential Oil
Quality	100% Pure and Natural
Note Classification	Middle to Top Note

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
Appearance	Colorless to pale yellow liquid	CONFORMS
Odour	Sweet, anise/licorice-like, slightly camphoraceous aroma	CONFORMS
Refractive Index	1.535 - 1.557 @ 20°C	1.545
Specific Gravity (g/mL)	0.945 - 0.985 @ 20°C	0.959
Optical Rotation (°)	+5° to +20°	CONFORMS
Solubility	Soluble in alcohols and fixed oils; Insoluble in water	CONFORMS

<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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