

CERTIFICATE OF ANALYSIS (COA)

Note Classification

Product Name	CUMIN SEED ESSENTIAL OIL		
Botanical Name	Cuminum cyminum		
CAS #	8014-13-9 ; 84775-51-9		
EINECS #	283-881-6		
INCI Name	Cuminum Cyminum (Cumin) Seed oil		
Part Used	Seeds		
Extraction Method	Steam Distilled Essential Oil		
Quality	100% Pure and Natural		

Top to Middle Note

<u>PROPERTIES</u>	SPECIFICATIONS	<u>RESULTS</u>
Appearance	Clear light yellow to brownish yellow colored liquid	CONFORMS
Odour	Strong, warm, spicy, herbaceous odour	CONFORMS
Refractive Index	1.490 - 1.515 @ 20°C	1.496
Specific Gravity (g/mL)	0.900 - 0.940 @ 20°C	0.926
Optical Rotation (°)	-1° to +9°	CONFORMS
Solubility	Soluble in alcohols and fixed oils; Insoluble in water	CONFORMS

MICROBIAL ANALYSIS	SPECIFICATIONS	STANDARDS	RESULTS
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

HEAVY METAL TESTS	<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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