

TECHNICAL DATA SHEET (TDS)

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
Note Classification	Top to Middle Note

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

<u>MICROBIAL ANALYSIS</u>	<u>SPECIFICATIONS</u>	<u>STANDARDS</u>
Aerobic Mesophilic Bacterial Count	< 100 CFU/g	ISO 21149
Yeast and Mould	< 10 CFU/g	ISO 16212
Candida albicans	ABSENT / 1g	ISO 18416
Escherichia coli	ABSENT / 1g	ISO 21150
Pseudomonas aeruginosa	ABSENT / 1g	ISO 22717
Staphylococcus aureus	ABSENT / 1g	ISO 22718

<u>HEAVY METAL TESTS</u>	<u>SPECIFICATIONS</u>	<u>STANDARDS</u>
Lead: Pb (mg/kg or ppm)	< 10 ppm	na
Arsenic: As (mg/kg or ppm)	< 2 ppm	na
Mercury: Hg (mg/kg or ppm)	< 1 ppm	na

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