

### TECHNICAL DATA SHEET (TDS)

Product Name	CARDAMOM ESSENTIAL OIL
Botanical Name	Elettaria cardamomum
INCI Name	Elettaria Cardamomum (Cardamom) Oil
CAS #	8000-66-6 ; 85940-32-5
EINECS #	288-922-1

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>
Appearance	Colorless to pale greenish yellow colored liquid
Odour	Spicy-sweet, fruity, warm, highly aromatic, slightly cineolic aroma
Refractive Index	1.460 - 1.470 @ 20°C
Specific Gravity (g/mL)	0.915 - 0.940 @ 20°C
Optical Rotation (°)	+15° to +50°
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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