



PRODUCT SPECIFICATION

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Product Name	Galangal Essential Oil
Botanical Name	<i>Alpinia Officinarum</i>
CAS #	90320-42-6
EC #	291-068-2
EINECS #	---
INCI Name	Alpinia officinarum root extract
INCI Description	Alpinia Officinarum Root Extract is an extract of the roots of the Lesser Galangal, <i>Alpinia officinarum</i> (L.), Zingiberaceae
Country of Origin	India
Packaging	As Per Customer Requirement

Part Used	Roots
Extraction Method	Steam Distillation
Quality	100% Pure and Natural
Note Classification	Strong

Physical & Analytical Analysis	SPECIFICATIONS
Appearance	Pale Yellow
Odor	Sweet and spicy Odor
Refractive Index @ 20°C	1.465
Specific Gravity (g/mL) @ 20°C	0.938
Optical Rotation (°)	7°
Solubility	Insoluble in water, soluble in alcohol and oils

Ingredients	Strength (%)
1,8-cineole	30.2-33.6
Camphor	5.0-14.0
b-pinene	0.9-12.9
a-fenchyl acetate	1.1-12.7
a-terpineol	2.3-9.3
(z)-b-ocimene	0-6.4
(E)-methyl cinnamate	2.6-5.3
(P)-limonene	3.5-3.7
camphene	0.5-3.1

Farnesol	0-3.1
a-pinene	0.5-3.0
Bornyl acetate	0.6-1.5
b-patchoulene	0.3-1.5
Terpinen-4-ol	0.9-1.3
b-eudesmol	0.4-1.1
Geraniol	0.3-1.1
pentadecane	0.6-1.0

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

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

Note: This Product Specification Sheet was prepared in accordance with the Quality parameters taken during product manufacturing/processing to maintain the quality of the product. This Specification Sheet shows the product characteristic feature of the actual product. However you can find the detailed examination report for the respective batches in their COA.