



## PRODUCT SPECIFICATION

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Product Name	Turmeric Essential Oil
Botanical Name	<i>Curcuma longa</i>
CAS #	84775-52-0
EC #	283-882-1
EINECS #	---
INCI Name	CURCUMA LONGA ROOT OIL
INCI Description	Curcuma Longa Root Oil is the oil obtained from the root of the Turmeric, <i>Curcuma longa</i> L., Zingiberaceae
Country of Origin	India
Packaging	As Per Customer Requirement

Part Used	Rhizome
Extraction Method	Steam Distillation
Quality	100% Pure and Natural
Note Classification	Middle

Physical & Analytical Analysis	SPECIFICATIONS
Appearance	Pale Yellow – Orange Yellow
Odor	Woody and spicy Odor
Refractive Index @ 20°C	1.465
Specific Gravity (g/mL) @ 20°C	0.938
Optical Rotation (°)	38.27°
Solubility	Insoluble in water, soluble in alcohol and oils

Ingredients	Strength (%)
Turmerone	8.0-28.4
Ar-turmerone	15.5-27.5
Zingiberene	11.6-16.8
a-phellandrene	0.7-12.8
b-sesquiphellandrene	8.8-9.5
Ar-curcumene	2.8-3
1,8-cineole	0-6.9
b-curcumene	0-5.6
Carlone	0-4.9

a-caryophyllene	0-3.9
Terpinolene	0-3.9
b-bisabolene	1.8-2.2
b-caryophyllene	0.2-2.0
p-cymene	0.3-1.4

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.