

CERTIFICATE OF ANALYSIS (COA)

Product Name	TURMERIC ESSENTIAL OIL
Botanical Name	Curcuma longa
CAS #	8024-37-1 ; 84775-52-0
EINECS #	283-882-1
INCI Name	Curcuma Longa (Turmeric) Root Oil

Part Used	Rhizomes
Extraction Method	Steam Distilled Essential Oil
Quality	100% Pure and Natural
Note Classification	Middle to Top Note

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULT</u>
Appearance	Pale yellow to orange yellow colored liquid	CONFORMS
Odour	Warm, fresh, spicy, slightly woody aroma	CONFORMS
Refractive Index	1.499 - 1.521 @ 25°C	1.506
Specific Gravity (g/mL)	0.925 - 0.971 @ 25°C	0.958
Optical Rotation (°)	-38° to +28°	
Solubility	Soluble in alcohols and fixed oils; Insoluble in water	CONFORMS

<u>MICROBIAL ANALYSIS</u>	<u>SPECIFICATIONS</u>	<u>STANDARDS</u>	<u>RESULTS</u>
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

<u>HEAVY METAL TESTS</u>	<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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