

### CERTIFICATE OF ANALYSIS (COA)

Product Name	GRAPEFRUIT ESSENTIAL OIL
Botanical Name	Citrus paradisi
CAS #	8016-20-4 ; 90045-43-5
EINECS #	289-904-6
INCI Name	Citrus Paradisi (Grapefruit) Peel Oil

Part Used	Peels
Extraction Method	Cold Pressed Essential Oil
Quality	100% Pure and Natural
Note Classification	Top Note

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULT</u>
Appearance	Pale yellow to orange colored liquid	CONFORMS
Odour	Fresh, light, citrusy, sweet, slightly bitter odour	CONFORMS
Refractive Index	1.465 - 1.485 @ 20°C	1.473
Specific Gravity (g/mL)	0.848 - 0.861 @ 20°C	0.853
Optical Rotation (°)	+90° to +99°	
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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