

## CERTIFICATE OF ANALYSIS (COA)

Product Name	VETIVER ESSENTIAL OIL	
Botanical Name	Chrysopogon zizanioides (synonym Vetiveria zizanioides)	
CAS #	8016-96-4 ; 84238-29-9	
EINECS #	282-490-8	
INCI Name	Vetiveria Zizanioides (Vetiver) Root oil	
Part Used	Roots	
Extraction Method	Steam Distilled Essential Oil	

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Extraction Method	Steam Distilled Essential Oil
Quality	100% Pure and Natural
Note Classification	Base Note, Excellent Fixative

<u>PROPERTIES</u>	SPECIFICATIONS	<u>RESULT</u>
Appearance	Amber brown to reddish brown colored, slightly viscous liquid	CONFORMS
Odour	Deep, rich, slightly sweet, resinous, earthy odour	CONFORMS
Refractive Index	1.516 - 1.530 @ 20°C	1.523
Specific Gravity (g/mL)	0.980 - 1.015 @ 20°C	0.994
Optical Rotation (°)	+15° to +48°	
Solubility	Soluble in alcohols and fixed oils; Insoluble in water	CONFORMS

MICROBIAL ANALYSIS	SPECIFICATIONS	STANDARDS	RESULTS
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

HEAVY METAL TESTS	<u>SPECIFICATIONS</u>	STANDARDS	RESULTS
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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