

**CERTIFICATE OF ANALYSIS (COA)**

Product Name	VETIVER OIL
Botanical Name	Chrysopogon zizanioides (syn Vetiveria Zizanioides)
Product Code	E253
CAS #	8016-96-4 ; 84238-29-9
EINECS #	282-490-8
INCI Name	Vetiveria Zizanioides (Vetiver) Root oil

Batch #	11622011
Manufacturing Date	NOVEMBER 2020
Best Before Date	OCTOBER 2022

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</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	1.521
Specific Gravity (g/mL)	0.980 - 1.015 @ 20°C	0.993
Optical Rotation (°)	+15° to +48°	CONFORMS
Solubility	Soluble in alcohols and fixed oils; Insoluble in water	CONFORMS

Comments	Odour quality is excellent
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<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

STABILITY AND STORAGE:

Keep in tightly closed container in a cool and dry place, protected from sunlight. When stored for more than 24 months, quality should be checked before use.

As it is electronically generated document, hence no signature required.

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