



## Certificate of Analysis

### VETIVERIA ZIZANOIDES (VERTIVER) ROOTOIL

Product code	: BLPEO1162
Sample designation	: Vetiver Essential Oil
Botanical name	: Vetiveria zizanioides
CAS#	: 8016-96-4 ; 84238-29-9
FEMA#	: n/a
EINECS#	: 282-490-8
Lot number	: 11622212
Geographic origin	: India
Type of culture	: Organic
Part of the plant used	: Roots
Extraction method	: Steam distillation
Manufacturing date	: December 2022
Re-test date	: November 2026



ORG/SC/2202/001041

#### Sensory Check

Feature	Reference	Result
Appearance:	Amber brown to reddish brown colored, slightly viscous liquid	meets
Fragrance:	Deep, rich, slightly sweet, resinous, earthy odour	meets
Color:	Amber brown to reddish brown	meets
Note classification:	Base Note, Excellent Fixative	

#### Analytical Check

Properties	Specifications	Results
Refractive index	1.516 - 1.530 @ 20°C	1.520
Specific gravity (g/mL)	0.980 - 1.015 @ 20°C	0.992
Optical Rotation (°)	+15° to +48°	Conforms
Solubility	Soluble in alcohols and fixed oils Insoluble in water	Conforms
Allergens	Limonene CAS No. 5989-27-5 Linalool CAS No. 78-70-6	1.0% 1.0%

Microbial Analyses	Specifications	Standard	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 12718	Conforms

Heavy Metal Test	Specifications	Standards	Results
Lead: Pb (mg/kg or ppm)	< 10 ppm	n/a	Conforms
Arsenic: As (mg/kg or ppm)	< 2 ppm	n/a	Conforms
Mercury: Hg (mg/kg or ppm)	< 1 ppm	n/a	Conforms

### Stability and Storage

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

**As this is electronically generated document, hence no signature required.**

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