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CERTIFICATE OF ANALYSIS (COA)

Product Name	VALERIAN ESSENTIAL OIL
Botanical Name	Valeriana officinalis
Product Code	PEO1161
CAS #	8008-88-6 ; 97927-02-1
FEMA #	3100
EINECS #	308-322-6
INCI Name	Valeriana Officinalis (Valerian) Root Oil

Batch #	11612301
Manufacturing Date	JANUARY 2023
Best Before Date	DECEMBER 2025

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
Appearance	Yellow to greenish yellow colored liquid	CONFORMS
Odour	Warm-woody, balsamic, musky aroma	CONFORMS
Refractive Index	1.470 - 1.485 @ 20°C	1.479
Specific Gravity (g/mL)	0.930 - 0.970 @ 20°C	0.958
Optical Rotation (°)	-40° to -20°	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 36 months, quality should be checked before use.

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

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