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## CERTIFICATE OF ANALYSIS (COA)

<b>Product Name</b>	<b>HOPS ESSENTIAL OIL</b>
<b>Botanical Name</b>	Humulus lupulus
<b>Product Code</b>	PEO1087
<b>CAS #</b>	8007-04-3 ; 8060-28-4
<b>EINECS #</b>	232-504-3
<b>INCI Name</b>	Humulus Lupulus (Hops) Oil

<b>Batch #</b>	10872312
<b>Manufacturing Date</b>	DECEMBER 2023
<b>Best Before Date</b>	NOVEMBER 2026

<b>Part Used</b>	Cones
<b>Extraction Method</b>	Steam Distilled Essential Oil
<b>Quality</b>	100% Pure and Natural
<b>Note Classification</b>	Top to Middle Note

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
<b>Appearance</b>	Colorless to greenish-yellow, slightly viscous liquid	CONFORMS
<b>Odour</b>	Woody, floral, herbaceous odour	CONFORMS
<b>Refractive Index</b>	1.470 - 1.494 @ 20°C	1.486
<b>Specific Gravity (g/mL)</b>	0.825 - 0.926 @ 20°C	0.875
<b>Optical Rotation (°)</b>	-2.5° to +2.5°	CONFORMS
<b>Solubility</b>	Soluble in alcohols and fixed oils; Insoluble in water	CONFORMS

<b>Comments</b>	Odour quality is excellent
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<b><u>MICROBIAL ANALYSIS</u></b>	<b><u>SPECIFICATIONS</u></b>	<b><u>STANDARDS</u></b>	<b><u>RESULTS</u></b>
<b>Aerobic Mesophilic Bacterial Count</b>	< 100 CFU/g	ISO 21149	CONFORMS
<b>Yeast and Mould</b>	< 10 CFU/g	ISO 16212	CONFORMS
<b>Candida albicans</b>	ABSENT / 1g	ISO 18416	CONFORMS
<b>Escherichia coli</b>	ABSENT / 1g	ISO 21150	CONFORMS
<b>Pseudomonas aeruginosa</b>	ABSENT / 1g	ISO 22717	CONFORMS
<b>Staphylococcus aureus</b>	ABSENT / 1g	ISO 22718	CONFORMS

<b><u>HEAVY METAL TESTS</u></b>	<b><u>SPECIFICATIONS</u></b>	<b><u>STANDARDS</u></b>	<b><u>RESULTS</u></b>
<b>Lead: Pb (mg/kg or ppm)</b>	< 10 ppm	na	CONFORMS
<b>Arsenic: As (mg/kg or ppm)</b>	< 2 ppm	na	CONFORMS
<b>Mercury: Hg (mg/kg or ppm)</b>	< 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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