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CERTIFICATE OF ANALYSIS (COA)

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

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|---------------------------|---------------|
| Batch # | 10872411 |
| Manufacturing Date | NOVEMBER 2024 |
| Best Before Date | OCTOBER 2027 |

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

| <u>PROPERTIES</u> | <u>SPECIFICATIONS</u> | <u>RESULTS</u> |
|--------------------------------|--|----------------|
| Appearance | Colorless to greenish-yellow, slightly viscous liquid | CONFORMS |
| Odour | Woody, floral, herbaceous odour | CONFORMS |
| Refractive Index | 1.470 - 1.494 @ 20°C | 1.485 |
| Specific Gravity (g/mL) | 0.825 - 0.926 @ 20°C | 0.876 |
| Optical Rotation (°) | -2.5° to +2.5° | CONFORMS |
| Solubility | Soluble in alcohols and fixed oils; Insoluble in water | CONFORMS |

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| 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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