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CERTIFICATE OF ANALYSIS (COA)

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| Product Name | FENNEL SWEET ESSENTIAL OIL |
| Botanical Name | Foeniculum vulgare |
| Product Code | PEO1072 |
| CAS # | 8006-84-6 ; 84455-29-8 |
| FEMA # | 2483 |
| EINECS # | 282-892-3 |
| INCI Name | Foeniculum Vulgare Dulce (Fennel) Seed Oil |

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|---------------------------|-----------|
| Batch # | 10722306 |
| Manufacturing Date | JUNE 2023 |
| Best Before Date | MAY 2026 |

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

| <u>PROPERTIES</u> | <u>SPECIFICATIONS</u> | <u>RESULTS</u> |
|--------------------------------|--|----------------|
| Appearance | Colorless to pale yellow liquid | CONFORMS |
| Odour | Sweet, anise/licorice-like, slightly camphoraceous aroma | CONFORMS |
| Refractive Index | 1.535 - 1.557 @ 20°C | 1.547 |
| Specific Gravity (g/mL) | 0.945 - 0.985 @ 20°C | 0.957 |
| Optical Rotation (°) | +5° to +20° | 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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