

CERTIFICATE OF ANALYSIS

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|-----------------------|--------------------------------|
| Product Name | Rose Otto Essential Oil |
| Botanical Name | Rosa damascena |
| Product Code | PEO1172 |
| CAS # | 8007-01-0 ; 90106-38-0 |
| INCI Name | Rosa Damascena Flower Oil |

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|---------------------------|---------------|
| Batch # | 11722502 |
| Manufacturing Date | FEBRUARY 2025 |
| Best Before Date | JANUARY 2028 |

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|--------------------------|------------------------------|
| Part Used | Flowers |
| Extraction Method | Hydrodistilled Essential Oil |
| Quality | 100% Pure and Natural |

| <u>PROPERTIES</u> | <u>SPECIFICATIONS</u> | <u>RESULTS</u> |
|--------------------------------|--|----------------|
| Appearance | Colorless to pale yellow transparent liquid | CONFORMS |
| Odour | Sweet, fresh, ethereal, warm, rosy-floral odour | CONFORMS |
| Refractive Index | 1.452 - 1.490 @ 20°C | 1.477 |
| Specific Gravity (g/mL) | 0.840 - 0.900 @ 20°C | 0.877 |
| Optical Rotation (°) | -6° to +2° | CONFORMS |
| Solubility | Soluble in alcohols and fixed oils; Insoluble in water | CONFORMS |

| <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 |

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| <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.

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