



## CERTIFICATE OF ANALYSIS (COA)

|                |                                        |
|----------------|----------------------------------------|
| Product Name   | ROSE GERANIUM ESSENTIAL OIL            |
| Botanical Name | Pelargonium graveolens var. roseum     |
| Product Code   | GF2137                                 |
| CAS #          | 90082-55-6                             |
| FEMA #         | 2508                                   |
| EINECS #       | 290-144-2                              |
| INCI Name      | Pelargonium Roseum (Rose Geranium) Oil |

|                    |               |
|--------------------|---------------|
| Batch #            | 11372602      |
| Manufacturing Date | FEBRUARY 2026 |
| Best Before Date   | JANUARY 2029  |

|                     |                               |
|---------------------|-------------------------------|
| Part Used           | Leaves and Tops               |
| 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              | Pale yellow to greenish yellow colored liquid          | CONFORMS       |
| Odour                   | Sweet, rosy, slightly herbaceous aroma                 | CONFORMS       |
| Refractive Index        | 1.463 - 1.473 @ 20°C                                   | 1.468          |
| Specific Gravity (g/mL) | 0.880 - 0.905 @ 20°C                                   | 0.893          |
| Optical Rotation (°)    | -13° to -7°                                            | 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.

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