



Certificate of Analysis

CITRUS AURANTIUM AMARA FLOWER/LEAF OIL

| | |
|------------------------|--------------------------------------|
| Product code | : PTGSF10 |
| Sample designation | : Petitgrain sur Fleur Essential Oil |
| Botanical name | : Citrus aurantium amara |
| CAS# | : 8016-44-2 |
| FEMA# | : - |
| EINECS# | : - |
| Lot number | : 11762010 |
| Geographic origin | : South Africa |
| Type of culture | : Organic |
| Part of the plant used | : Young twigs, Leaf and Blossom |
| Extraction method | : Steam distillation |
| Manufacturing date | : October 2022 |
| Re-test date | : September 2024 |



ORG/SC/2202/001041

Sensory Check

| Feature | Reference | Result |
|----------------------|---|--------|
| Appearance: | Light greenish yellow colored liquid | meets |
| Fragrance: | Fresh, sweet floral, slightly bitter orange- like odour | meets |
| Color: | Light greenish yellow | meets |
| Note classification: | Middle to Top Note | |

Analytical Check

| Properties | Specifications | Results |
|-------------------------|--|-----------|
| Refractive index | 1.450 - 1.490 @ 20°C | 1.478 |
| Specific gravity (g/mL) | 0.870 - 0.920 @ 20°C | 0.901 |
| Optical Rotation (°) | -6° to +2 ° | Conforms |
| Solubility | Soluble in alcohols and fixed oils Insoluble in water | Conforms |
| Allergens | Linalool Limonene | 45% 6% |

| Microbial Analyses | Specifications | Standard | Results |
|------------------------------------|----------------|-----------|----------|
| 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 12718 | Conforms |

| Heavy Metal Test | Specifications | Standards | Results |
|----------------------------|----------------|-----------|----------|
| Lead: Pb (mg/kg or ppm) | < 10 ppm | n/a | Conforms |
| Arsenic: As (mg/kg or ppm) | < 2 ppm | n/a | Conforms |
| Mercury: Hg (mg/kg or ppm) | < 1 ppm | n/a | Conforms |

Stability and Storage

Keep in tightly closed containers in a cool and dry place, protected from sunlight. When stored for more than 24 months, quality should be checked before use.

As this is electronically generated document, hence no signature required.

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