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Certificate of Analysis

Product: Marjoram Essential Oil
 Botanical name: *Marjorana hortensis L.*
 Batch number: MO/0520
 Country of Origin: Egypt
 Re-test Date: 01-JUN-2022

| Parameters | Specification | Results |
|--|--------------------------------|----------|
| State | Liquid | Complies |
| Colour | Pale yellow | Complies |
| Odour | Spicy marjoram characteristics | Complies |
| Specific Gravity / (g/cm ³) @ 20°C | 0.870 – 0.910 | 0.920 |
| Refractive Index @ 20°C | 1.450 – 1.490 | 1.472 |
| Optical Rotation @ 20°C | +14 to +24 | Complies |
| Solubility in Alcohol 80% | 1:1 and more is clear | Complies |
| Chromatographic Profile | | |
| Linalool | | 1.4% |
| Gamma-Terpinene | | 14% |
| Terpene-4-ol | | 22.7% |
| Alpha - Terpineol | | 3.05% |
| Sabinene | | 7.15% |
| Alpha Terpinene | | 8.6% |
| Bi Cyclo Germacrene | | 1.12% |
| Beta Caryophyllene | | 2.27% |

Storage: Store in well-filled, tightly sealed containers, in a cool dry place, away from direct sunlight.

This document is a computer generated certificate of analysis and does not require a signature.