



## Certificate of Analysis

### 1) Product Identification

Product Name: Chamomile German Essential Oil  
Botanical Name: Matricaria recutita  
Country of Origin: Egypt  
Cultivation Method: Conventional  
Extraction Method: Steam Distilled  
Plant Part: Flower Heads  
Lot #: 2  
Best by Date: April 2021

### 2) Physical and Chemical Properties

Appearance: Dark blue viscous liquid. Conforms  
Odor: Characteristic. Conforms  
Specific Gravity: 0.890 to 0.990 @ 20°C Conforms  
Solubility: Soluble in alcohol and oils. Insoluble in water. Conforms

### 3) Gas Chromatography Analysis (Typical)

#### Components:

|                      |        |                          |       |
|----------------------|--------|--------------------------|-------|
| para-Cymene          | 0.11%  | Germacrene D             | 3.16% |
| cis-beta-Ocimene     | 0.14%  | beta-Selinene            | 0.22% |
| trans-beta-Ocimene   | 0.94%  | Bicyclogermacrene        | 3.15% |
| gamma-Terpinene      | 0.51%  | (E,E)-alpha-Farnesene    | 9.08% |
| delta-Elemene        | 0.20%  | delta-Cadinene           | 0.15% |
| beta-Elemene         | 0.23%  | alpha-Bisabolol oxide B  | 2.25% |
| alpha-Copaene        | 0.08%  | alpha-Bisabolone oxide A | 2.35% |
| beta-Maaliene        | 0.11%  | Chamazulene              | 0.73% |
| alpha-Iscomene       | 0.44%  | alpha-Bisabolol oxide A  | 10.3% |
| beta-Caryophyllene   | 0.29%  | cis-en-yn-Bicycloether   | 4.77% |
| trans-beta-Farnesene | 56.27% | trans-en-yn-Bicycloether | 0.36% |

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#### **4) Storage Conditions**

Store at temperature <math><30^{\circ}\text{C}</math> in closed containers and protected from direct sunlight.

#### **5) Remarks**

This Essential Oil is a 100% pure and natural product.  
It does not contain any artificial ingredients or adulteration of any kind to the best of our knowledge.

#### **6) Disclaimer**

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