

## CERTIFICATE OF ANALYSIS

Organic Essential Oil of Grapefruit from United States of America  
100% pure and natural

Botanical name : *Citrus paradisi Macfad.*  
Commercial name : Organic Grapefruit  
Batch number : **2400105**  
Geographical origin : United States of America  
Production date : September 2023

### Physical and chemical data :

|                                 | Standards                    | Results of analysis |
|---------------------------------|------------------------------|---------------------|
| <b>Appearance</b>               | Liquid                       | Conform             |
| <b>Colour</b>                   | Colourless to yellow orangey | Conform             |
| <b>Odour</b>                    | Sweet, fruity                | Conform             |
| <b>Specific gravity at 20°C</b> | 0.840 to 0.870               | 0.8520              |
| <b>Refractive index at 20°C</b> | 1.465 to 1.485               | 1.4758              |
| <b>Optical rotation at 20°C</b> | +75° to +105°                | +93.80°             |
| <b>Flash point</b>              | +40°C to +55°C               |                     |

### Table of components :

| Components         | Content (%)   |
|--------------------|---------------|
| Alpha-pinene       | 0.58%         |
| Beta-pinene        | 0.05%         |
| Sabinene           | 0.33%         |
| Myrcene            | 1.78%         |
| Alpha-phellandrene | 0.03%         |
| Limonene           | 94.39%        |
| Beta-caryophyllene | 0.29%         |
| Trans-beta-ocimene | 0.09%         |
| Nootkatone         | 0.11%         |
| Octanal            | 0.35%         |
| Nonanal            | 0.05%         |
| Delta-elemene      | 0.04%         |
| Citronellal        | 0.05%         |
| Decanal            | 0.28%         |
| Linalool           | 0.08%         |
| Terpinene-4-ol     | 0.35%         |
| Alpha-humulene     | 0.05%         |
| Neral              | 0.02%         |
| Alpha-terpineol    | 0.05%         |
| Germacrene D       | 0.18%         |
| Geranial           | 0.02%         |
| Geranyl Acetate    | 0.03%         |
| Delta-cadinene     | 0.13%         |
| <b>TOTAL</b>       | <b>99.33%</b> |