



## CERTIFICATE OF ANALYSIS

**Product** : **Cardamom Essential Oil**

Lot No : 54000009874

Manufacturing Date : November, 2024

Best Before : October, 2026

**Properties**

**Specifications**

**Results**

Appearance : Colorless to very pale yellow clear liquid. Complies

Odor : Characteristic sweet somewhat spicy odor. Complies

Solubility : Soluble in alcohol and oils.  
Insoluble in water. Complies

Specific Gravity : 0.8800 to 0.8700 @ 20°C 0.3254

Optical Rotation : +24.0° to +48.0° @ 20°C 26.75

Refractive Index : 1.7400 to 1.5200 @ 20°C 1.8547

Terpinyl Acetate : 37 - 45% 37.46

1,8-cineole : 28 - 39 % 32.54