

## **Certificate of Analysis**

Date: August 16, 2023

**Product:** Cardamom Essential Oil

Lot/Batch Number: CARD230721

Best Before Date: January 2026

PROPERTIES	SPECIFICATIONS	RESULTS
Appearance	Colourless to very pale yellow, clear liquid.	Complies
Odour	Characteristic, sweet somewhat spicy odour.	Complies
Solubility	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity @20°C	0.909 – 0.956	0.925
Optical Rotation @20°C	+20.0 to +41.0	27.8
Refractive Index @20°C	1.454 – 1.472	1.462
Terpinyl Acetate %	32 – 44	44.30
1,8-cineole %	25 – 37	31.52

**Storage and Handling:** Shelf life is dependent on exposure to light/air and general good conditions. Products stored in adverse conditions will deteriorate faster. Products stored in ideal conditions away from light and moisture may last substantially longer. Retest date reflects absolute minimum period of time that product should remain in good useable condition.

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