

Certificate of Analysis

Date: December 15, 2022

Product: Clove Bud Essential Oil

Lot/Batch Number: CLVB221214

Best Before: July 2024

PROPERTIES	SPECIFICATIONS	RESULTS
Appearance	Colourless to yellow	Complies
Odour	Spicy, sweet, fermented, and woody odour	Complies
Solubility	Soluble in 1:1.5 (v/v) 70% ethanol	Complies
Specific Gravity @25°C	1.035 – 1.063	1.055
Refractive Index @20°C	1.528 – 1.537	1.534
Eugenol Content %	75 – 83	81.09
Optical Rotation @25°C	-1.5 to 0	-0.4
Eugenol acetate %	4 – 40	9.40
B-caryophyllene %	4 – 12	5.41

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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