

CERTIFICATE OF ANALYSIS

Product: Cardamom Essential Oil

Lot No.: 11020A10419

Best Before: April, 2021

Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Colorless to very pale yellow liquid.	Complies
Odor:	Characteristic sweet somewhat spicy odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.910 to 0.958 @ 20°C	0.9260
Optical Rotation:	+21.0° to +42.0° @ 20°C	+28.70°
Refractive Index:	1.455 to 1.471 @ 20°C	1.4630
Terpinyl Acetate:	41 - 48 %	44.6 %
1,8-Cineole:	28 - 38 %	32.9 %

Disclaimer & Caution

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CERTIFICATE OF ANALYSIS

Product: Cardamom Essential Oil

Lot No.: 11O20A221

Best Before: April, 2021

Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Colorless to very pale yellow liquid.	Complies
Odor:	Characteristic sweet somewhat spicy odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.9170 to 0.9470 @ 25°C	Complies
Optical Rotation:	+22.0° to +44.0° @ 25°C	Complies
Refractive Index:	1.4600 to 1.4660 @ 25°C	1.4645
Terpinyl Acetate:	43 - 46 %	Complies
1,8-Cineole:	30 - 36 %	Complies

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CERTIFICATE OF ANALYSIS

Product: Cardamom Essential Oil

Lot No.: 11020-A22

Best Before: September, 2020

Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Colorless to very pale yellow liquid.	Complies
Odor:	Characteristic sweet somewhat spicy odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.9170 to 0.9470 @ 25°C	0.9280
Optical Rotation:	+22.0° to +44.0° @ 25°C	+29.27°
Refractive Index:	1.4600 to 1.4660 @ 25°C	1.4624
Terpinyl Acetate:	43 - 46 %	45.2 %
1,8-Cineole:	30 - 36 %	33.5 %

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CERTIFICATE OF ANALYSIS

Product: Cardamom Essential Oil

Lot No.: 11020-A21-1,B21-1

Best Before: September, 2020

Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
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:	0.917 to 0.947 @ 25°C	Complies
Optical Rotation:	+22.0° to +44.0° @ 25°C	Complies
Refractive Index:	1.460 to 1.466 @ 25°C	1.4645
Terpinyl Acetate:	43 - 46 %	Complies %
1,8-Cineole:	33 - 36 %	Complies %

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