

CERTIFICATE OF ANALYSIS

Product: Cinnamon Bark Essential Oil (Madagascar)

Lot No.: 11315A10220

Best Before: October, 2023

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

| <u>Properties</u> | <u>Specifications</u> | <u>Results</u> |
|-------------------|-----------------------------------------------|----------------|
| Appearance: | Clear pale yellow to orange liquid. | Complies |
| Odor: | Characteristic sweet cinnamon odor. | Complies |
| Solubility: | 1:2 - 1:3 in 70% ethanol. Insoluble in water. | Complies |
| Specific Gravity: | 1.0100 to 1.0400 @ 20°C | 1.01744 |
| Refractive Index: | 1.5750 to 1.6000 @ 20°C | 1.58658 |
| Optical Rotation: | -3.0° to +3.0° @ 20°C | +1.72° |
| Cinnamaldehyde: | 55 - 75 % | 72.80 |

Disclaimer & Caution

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CERTIFICATE OF ANALYSIS

Product: Cinnamon Bark Essential Oil (Madagascar)
Lot No.: 11315A10319
Best Before: September, 2022
Store in an air tight container; in a cool dry area; away from direct sunlight.

| <u>Properties</u> | <u>Specifications</u> | <u>Results</u> |
|-------------------|-----------------------------------------------|----------------|
| Appearance: | Clear pale yellow to orange liquid. | Complies |
| Odor: | Characteristic sweet cinnamon odor. | Complies |
| Solubility: | 1:2 - 1:3 in 70% ethanol. Insoluble in water. | Complies |
| Specific Gravity: | 1.0100 to 1.0400 @ 20°C | 1.02410 |
| Refractive Index: | 1.5750 to 1.6000 @ 20°C | 1.58943 |
| Optical Rotation: | -3.0° to +3.0° @ 20°C | +1.04° |
| Cinnamaldehyde: | 55 - 75 % | 73.57 |

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CERTIFICATE OF ANALYSIS

Product: Cinnamon Bark Essential Oil (Madagascar)

Lot No.: 11315-A04-1

Best Before: April, 2020

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

| <u>Properties</u> | <u>Specifications</u> | <u>Results</u> |
|-------------------|-----------------------------------------------|----------------|
| Appearance: | Clear pale yellow to orange liquid. | Complies |
| Odor: | Characteristic sweet cinnamon odor. | Complies |
| Solubility: | 1:2 - 1:3 in 70% ethanol. Insoluble in water. | Complies |
| Specific Gravity: | 1.00 to 1.03 @ 25°C | 1.01 |
| Refractive Index: | 1.570 to 1.590 @ 20°C | 1.590 |
| Optical Rotation: | -4.0° to +4.0° @ 20°C | -4.0° |
| Cinnamaldehyde: | 45 - 75 % | Complies |

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