

## CERTIFICATE OF ANALYSIS

Product: Cinnamon Leaf Essential Oil

Lot No.: 111034A10221

Best Before: October, 2025

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:	Pale yellow to dark brown liquid.	Complies
Odor:	Characteristic cinnamon odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	1.0300 to 1.0590 @ 20°C	1.0444
Optical Rotation:	+2.0° to -2.50° @ 20°C	1.60°
Refractive Index:	1.5200 to 1.5400 @ 20°C	1.5320
Eugenol:	70.0 – 85.0 %	77.01
Eugenol acetate:	0.5 – 5.0 %	1.31

### Disclaimer & Caution

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**CERTIFICATE OF ANALYSIS**

Product: Cinnamon Leaf Essential Oil

Lot No.: 11034B11120

Best Before: August,2025

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:	Pale yellow to dark brown liquid.	Complies
Odor:	Characteristic cinnamon odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	1.0300 to 1.0590 @ 20°C	1.0499
Optical Rotation:	+2.0° to -2.50° @20°C	0.48°
Refractive Index:	1.5200 to 1.5400 @ 20°C	1.5334
Eugenol:	70.0 – 85.0 %	78.85
Eugenol acetate:	0.5 – 5.0 %	1.83

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**CERTIFICATE OF ANALYSIS**

Product: Cinnamon Leaf Essential Oil

Lot No.: 11034A11020

Best Before: May,2025

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:	Pale amber to dark brown liquid.	Complies
Odor:	Characteristic cinnamon odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	1.0300 to 1.0590 @ 20°C	1.0529
Optical Rotation:	+2.0° to -2.50° @20°C	0.082°
Refractive Index:	1.5200 to 1.5400 @ 20°C	1.5334
Eugenol:	70.0 – 85.0 %	78.90
Eugenol acetate:	0.5 – 8.0 %	4.54

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**CERTIFICATE OF ANALYSIS**

Product: Cinnamon Leaf Essential Oil

Lot No.: 11034C10620

Best Before: November, 2024

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:	Pale amber to dark brown liquid.	Complies
Odor:	Characteristic cinnamon odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	1.0300 to 1.0500 @ 20°C	1.0477
Optical Rotation:	0° to +2.0° @ 25°C	0.517°
Refractive Index:	1.5290 to 1.5400 @ 25°C	1.5351
Eugenol:	73.0 - 85.0 %	78.41
Eugenol acetate:	0.80 - 5.0 %	1.04

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**CERTIFICATE OF ANALYSIS**

Product: Cinnamon Leaf Essential Oil

Lot No.: 11034B10520

Best Before: September, 2024

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:	Pale amber to dark brown liquid.	Complies
Odor:	Characteristic cinnamon odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	1.0300 to 1.0500 @ 20°C	1.0477
Optical Rotation:	0° to +2.0° @ 25°C	0.51°
Refractive Index:	1.5290 to 1.5400 @ 25°C	1.5351
Eugenol:	73.0 - 85.0 %	78.41
Eugenol acetate:	0.80 - 5.0 %	1.04

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## CERTIFICATE OF ANALYSIS

Product: Cinnamon Leaf Essential Oil

Lot No.: 11034A10120

Best Before: September, 2024

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:	Pale amber to dark brown liquid.	Complies
Odor:	Characteristic cinnamon odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	1.0300 to 1.0500 @ 20°C	1.0497
Optical Rotation:	0° to +2.0° @ 25°C	0.43°
Refractive Index:	1.5290 to 1.5400 @ 25°C	1.5355
Eugenol:	73.0 – 85.0 %	79.25
Eugenol acetate:	0.80 – 5.0 %	1.67

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**CERTIFICATE OF ANALYSIS**

Product: Cinnamon Leaf Essential Oil

Lot No.: 11034A11119

Best Before: April, 2024

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:	Pale amber to dark brown liquid.	Complies
Odor:	Characteristic cinnamon odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	1.0300 to 1.0500 @ 20°C	1.0495
Optical Rotation:	0° to +2.0° @ 25°C	0.44°
Refractive Index:	1.5290 to 1.5400 @ 25°C	1.5327
Eugenol:	73.0 – 85.0 %	77.91
Eugenol acetate:	0.80 – 5.0 %	2.53

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## CERTIFICATE OF ANALYSIS

Product: Cinnamon Leaf Essential Oil  
Lot No.: 11034-A27,B27,C27,D27,E27,F27  
Best Before: October, 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:	Pale amber to dark brown liquid.	Complies
Odor:	Characteristic cinnamon odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	1.0300 to 1.0500 @ 20°C	1.0476
Optical Rotation:	0° to +2.0° @ 25°C	0.90°
Refractive Index:	1.5290 to 1.5400 @ 25°C	1.5320
Eugenol:	73.0 – 85.0 %	80.33
Eugenol acetate:	0.80 – 5.0 %	2.28

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## CERTIFICATE OF ANALYSIS

Product: Cinnamon Leaf Essential Oil  
Lot No.: 11034-A26,B26,C26,D26  
Best Before: October, 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:	Pale amber to dark brown liquid.	Complies
Odor:	Characteristic cinnamon odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	1.0300 to 1.0600 @ 20°C	1.0486
Optical Rotation:	-2.5° to +2.0° @ 25°C	0.65°
Refractive Index:	1.5270 to 1.5400 @ 25°C	1.5339
Eugenol:	73.0 – 88.0 %	79.98
Eugenol acetate:	0.80 – 5.0 %	1.32

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**CERTIFICATE OF ANALYSIS**

Product: Cinnamon Leaf Essential Oil  
Lot No.: 11034-A25  
Best Before: October, 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:	Pale amber to dark brown liquid.	Complies
Odor:	Characteristic cinnamon odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	1.0300 to 1.0600 @ 20°C	1.0486
Optical Rotation:	-2.5° to +2.0° @ 25°C	0.65°
Refractive Index:	1.5270 to 1.5400 @ 25°C	1.5339
Eugenol:	73.0 – 88.0 %	79.98
Eugenol acetate:	0.80 – 5.0 %	1.32

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## CERTIFICATE OF ANALYSIS

Product: Cinnamon Leaf Essential Oil  
Lot No.: 11034-A24,B24,C24  
Best Before: July, 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:	Pale amber to dark brown liquid.	Complies
Odor:	Characteristic cinnamon odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	1.0300 to 1.0500 @ 20°C	1.0467
Optical Rotation:	0° to +2.0° @ 25°C	0.90°
Refractive Index:	1.5290 to 1.5400 @ 25°C	1.5343
Eugenol:	73.0 – 85.0 %	79.17
Eugenol acetate:	0.80 – 5.0 %	1.44

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## CERTIFICATE OF ANALYSIS

Product: Cinnamon Leaf Essential Oil  
Lot No.: 11034-A23,B23,C23  
Best Before: February, 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:	Pale amber to dark brown liquid.	Complies
Odor:	Characteristic cinnamon odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	1.0300 to 1.0500 @ 20°C	1.0478
Optical Rotation:	0° to +2.0° @ 25°C	0.90°
Refractive Index:	1.5290 to 1.5400 @ 25°C	1.5383
Eugenol:	73.0 – 85.0 %	79.95
Eugenol acetate:	0.80 – 5.0 %	1.90

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