

## CERTIFICATE OF ANALYSIS

Product: Cinnamon Leaf Organic Essential Oil

Lot No: 50005-A20,B20,C20,D20,E20

Best Before Date: January, 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:	Yellow to brownish yellow liquid.	Complies
Odor:	Characteristic cinnamon odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	1.030 - 1.060 @ 20°C	1.0582
Optical Rotation:	-2.50° to +2.0° @ 25°C	-0.05°
Refractive Index:	1.527 - 1.540 @ 25°C	Complies
Eugenol:	73 - 88 %	83.08

### Disclaimer & Caution

Please refer to all relevant technical information specific to the product, prior to use. The information contained in this document is obtained from current and reliable sources. New Directions Aromatics Inc. provides the information contained herein, but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. The user of the product is solely responsible for compliance with all laws and regulations applying to the use of the products, including intellectual property rights of third parties. As the ordinary or otherwise use(s) of this product is outside the control of New Directions Aromatics Inc., no representation or warranty, expressed or implied, is made as to the effect(s) of such use(s), (including damage or injury), or the results obtained. The liability of New Directions Aromatics Inc. is limited to the value of the goods and does not include any consequential loss. New Directions Aromatics Inc. shall not be liable for any errors or delays in the content, or for any actions taken in reliance thereon. New Directions Aromatics Inc. shall not be responsible for any damages resulting from use of or reliance upon this information. In the event of any dispute, the Customer hereby agrees that Jurisdiction is limited to the province of Ontario.

CERTIFICATE OF ANALYSIS

Product: Cinnamon Leaf Organic Essential Oil

Lot No: 50005-A19,B19,C19,D19,E19,F19,G19,H19

Best Before Date: January, 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:	Yellow to brownish yellow liquid.	Complies
Odor:	Characteristic cinnamon odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	1.030 - 1.060 @ 20°C	1.0582
Optical Rotation:	-2.50° to +2.0° @ 25°C	-0.05°
Refractive Index:	1.527 - 1.540 @ 25°C	Complies
Eugenol:	73 - 88 %	83.08

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CERTIFICATE OF ANALYSIS

Product: Cinnamon Leaf Organic Essential Oil

Lot No: 50005-A18,B18

Best Before Date: 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:	Yellow to brownish yellow liquid.	Complies
Odor:	Characteristic cinnamon odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	1.030 - 1.050 @ 20°C	1.0473
Optical Rotation:	0.0° to +2.0° @ 25°C	+0.85°
Refractive Index:	1.529 - 1.540 @ 25°C	1.5324
Eugenol:	73 - 85 %	80.17

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CERTIFICATE OF ANALYSIS

Product: Cinnamon Leaf Organic Essential Oil

Lot No: 50005-A17,B17

Best Before Date: 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:	Yellow to brownish yellow liquid.	Complies
Odor:	Characteristic cinnamon odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	1.030 - 1.050 @ 20°C	1.047
Optical Rotation:	0.0° to +2.0° @ 25°C	+0.80°
Refractive Index:	1.529 - 1.540 @ 25°C	1.5322
Eugenol:	73 - 85 %	79.85

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CERTIFICATE OF ANALYSIS

Product: Cinnamon Leaf Organic Essential Oil

Lot No: 50005-A16,B16,C16,D16,E16

Best Before Date: 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:	Yellow to brownish yellow liquid.	Complies
Odor:	Characteristic cinnamon odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	1.030 - 1.050 @ 20°C	1.047
Optical Rotation:	0.0° to +2.0° @ 25°C	+0.90°
Refractive Index:	1.529 - 1.540 @ 25°C	1.5318
Eugenol:	73 - 85 %	79.58

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CERTIFICATE OF ANALYSIS

Product: Cinnamon Leaf Organic Essential Oil

Lot No: 50005-A15,B15,C15,D15

Best Before Date: 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:	Yellow to brownish yellow liquid.	Complies
Odor:	Characteristic cinnamon odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	1.030 - 1.050 @ 20°C	1.044
Optical Rotation:	-2.0° to +1.0° @ 27°C	+0.90°
Refractive Index:	1.529 - 1.540 @ 25°C	1.5307
Eugenol:	73 - 85 %	77.16

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CERTIFICATE OF ANALYSIS

Product: Cinnamon Leaf Organic Essential Oil

Lot No: 50005-A14,B14,C14

Best Before Date: May, 2021

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:	Yellow to brownish yellow liquid.	Complies
Odor:	Characteristic cinnamon odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	1.030 - 1.050 @ 20°C	1.040
Optical Rotation:	-2.0° to +1.0° @ 27°C	+0.56°
Refractive Index:	1.529 - 1.540 @ 25°C	1.5341
Eugenol:	73 - 85 %	77.04

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