

CERTIFICATE OF ANALYSIS

Product: Ginger Essential Oil – Dried

Lot No.: 11063E223

Best Before: February, 2022

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Pale yellow to yellow liquid.	Complies
Odor:	Characteristic ginger odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.860 to 0.882 @ 20°C	Complies
Optical Rotation:	-47° to -28° @ 20°C	Complies
Refractive Index:	1.4878 to 1.4940 @ 20°C	Complies
Zingiberene:	>30 %	Complies

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: Ginger Essential Oil – Dried  
Lot No.: 11063A232, 11063C232, 11063D232  
Best Before: February, 2022

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Pale yellow to yellow liquid.	Complies
Odor:	Characteristic ginger odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.860 to 0.882 @ 20°C	Complies
Optical Rotation:	-47° to -28° @ 20°C	Complies
Refractive Index:	1.4878 to 1.4940 @ 20°C	Complies
Zingiberene:	>30 %	Complies

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CERTIFICATE OF ANALYSIS

Product: Ginger Essential Oil – Dried

Lot No.: 11063D223, 11063F223

Best Before: February, 2022

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Pale yellow to yellow liquid.	Complies
Odor:	Characteristic ginger odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.860 to 0.882 @ 20°C	Complies
Optical Rotation:	-47° to -28° @ 20°C	Complies
Refractive Index:	1.4878 to 1.4940 @ 20°C	Complies
Zingiberene:	>30 %	Complies

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CERTIFICATE OF ANALYSIS

Product: Ginger Essential Oil – Dried

Lot No.: 11063E222

Best Before: February, 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:	Pale yellow to yellow liquid.	Complies
Odor:	Characteristic ginger odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.860 to 0.882 @ 20°C	Complies
Optical Rotation:	-47° to -28° @ 20°C	Complies
Refractive Index:	1.4878 to 1.4940 @ 20°C	Complies
Zingiberene:	>30 %	Complies

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## CERTIFICATE OF ANALYSIS

Product: Ginger Essential Oil – Dried  
Lot No.: 11063A231, 11063B231, 11063C231, 11063D231  
Best Before: February, 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:	Pale yellow to yellow liquid.	Complies
Odor:	Characteristic ginger odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.860 to 0.882 @ 20°C	0.873
Optical Rotation:	-47° to -28° @ 20°C	Complies
Refractive Index:	1.4878 to 1.4940 @ 20°C	Complies
Zingiberene:	>30 %	Complies

### Disclaimer & Caution

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