

CERTIFICATE OF ANALYSIS

Product: Lemon 5 Fold (Natural Blend) Essential Oil

Lot No.: 90006 - A18

Best Before: December, 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:	Pale yellow to yellow liquid.	Complies
Odor:	Characteristic lemon rind odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.8700 to 0.8880 @ 15°C	0.8772
Optical Rotation:	+34° to +50° @ 20°C	41.55
Refractive Index:	1.4700 to 1.4810 @ 20°C	1.4755
Limonene:	64 - 67 %	65.742
Citral:	17 - 19 %	18.20

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: Lemon 5 Fold (Natural Blend) Essential Oil

Lot No.: 90006 - A17

Best Before: November, 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:	Pale yellow to yellow liquid.	Complies
Odor:	Characteristic lemon rind odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.8700 to 0.8880 @ 15°C	0.8772
Optical Rotation:	+34° to +50° @ 20°C	41.15
Refractive Index:	1.4700 to 1.4810 @ 20°C	1.4755
Limonene:	64 - 67 %	65.742
Citral:	17 - 19 %	18.20

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CERTIFICATE OF ANALYSIS

Product: Lemon 5 Fold (Natural Blend) Essential Oil
 Lot No.: 90006 - A16,B16,C16,D16,E16,F16,G16,H16,I16,J16,K16,L16,M16
 Best Before: May, 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:	Pale yellow to yellow liquid.	Complies
Odor:	Characteristic lemon rind odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.8700 to 0.8880 @ 15°C	0.8780
Optical Rotation:	+34° to +50° @ 20°C	38.90
Refractive Index:	1.4700 to 1.4810 @ 20°C	1.4756
Limonene:	64 - 67 %	64.928
Citral:	17 - 19 %	18.169

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CERTIFICATE OF ANALYSIS

Product: Lemon 5 Fold (Natural Blend) Essential Oil

Lot No.: 90006 - A15,B15,C15,D15,E15

Best Before: March, 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:	Pale yellow to yellow liquid.	Complies
Odor:	Characteristic lemon rind odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.8700 to 0.8880 @ 15°C	0.8767
Optical Rotation:	+34° to +50° @ 20°C	38.60
Refractive Index:	1.4700 to 1.4810 @ 20°C	1.4756
Limonene:	64 - 67 %	66.213
Citral:	17 - 19 %	18.438

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CERTIFICATE OF ANALYSIS

Product: Lemon 5 Fold (Natural Blend) Essential Oil

Lot No.: 90006 - A14,B14

Best Before: January, 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:	Pale yellow to yellow liquid.	Complies
Odor:	Characteristic lemon rind odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.8700 to 0.8880 @ 15°C	0.8767
Optical Rotation:	+34° to +50° @ 20°C	38.60
Refractive Index:	1.4700 to 1.4810 @ 20°C	1.4756
Limonene:	64 - 67 %	66.213
Citral:	17 - 19 %	18.438

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CERTIFICATE OF ANALYSIS

Product: Lemon 5 Fold (Natural Blend) Essential Oil

Lot No.: 90006 - A13,B13,C13

Best Before: October, 2019

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 lemon rind odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.8700 to 0.8880 @ 15°C	0.8767
Optical Rotation:	+34° to +50° @ 20°C	38.60
Refractive Index:	1.4700 to 1.4810 @ 20°C	1.4756

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CERTIFICATE OF ANALYSIS

Product: Lemon 5 Fold (Natural Blend) Essential Oil

Lot No.: 90006 - A12,B12,C12,D12,E12,F12

Best Before: July, 2019

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 lemon rind odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.8700 to 0.8880 @ 15°C	0.8767
Optical Rotation:	+34° to +50° @ 20°C	38.60
Refractive Index:	1.4700 to 1.4810 @ 20°C	1.4756

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CERTIFICATE OF ANALYSIS

Product: Lemon 5 Fold (Natural Blend) Essential Oil

Lot No.: 90006 - A11,B11

Best Before: April, 2019

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 lemon rind odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.8700 to 0.8880 @ 15°C	0.8767
Optical Rotation:	+34° to +50° @ 20°C	38.60
Refractive Index:	1.4700 to 1.4810 @ 20°C	1.4756

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