

## CERTIFICATE OF ANALYSIS

Product: Lavender Population Essential Oil

Lot No.: 11079A10321

Best Before: August, 2025

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Clear to pale yellow clear liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Soluble in alcohols and oils. Insoluble in water.	Complies
Specific Gravity:	0.875 to 0.890 @ 20°C	0.879
Refractive Index:	1.457 to 1.467 @ 20°C	1.461
Optical Rotation:	-3.0° to -10.0° @ 20°C	-9.06
Linalool:	22 - 44 % (g.c.)	33.07
Linalyl Acetate:	20 - 38 % (g.c.)	25.77
Camphor:	< 0.6 %	0.21

### 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: Lavender Population Essential Oil

Lot No.: 11079C11220

Best Before: August, 2024

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Colorless to pale yellow transparent liquid.	Complies
Odor:	Characteristic lavender aroma.	Complies
Solubility:	Soluble in 75 % ethanol (v/v) Insoluble in water.	Complies
Specific Gravity:	0.8750 to 0.8900 @ 20°C	0.883
Refractive Index:	1.4570 to 1.4670 @ 20°C	1.462
Optical Rotation:	(-10°) to (-3°)	-8.44°
Linalool:	22 - 44 % (g.c.)	33.25
Linalyl Acetate:	20 - 38 % (g.c.)	30.00
Camphor:	< 0.6 %	0.22

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**CERTIFICATE OF ANALYSIS**

Product: Lavender Population Essential Oil

Lot No.: 11079B11020

Best Before: August, 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 yellow clear liquid.	Complies
Odor:	Characteristic odor	Complies
Solubility:	Insoluble in water. Soluble in ethanol (75% ) 1:2	Complies
Specific Gravity:	0.8750 to 0.8900 @ 20°C	0.883
Refractive Index:	1.4570 to 1.4670 @ 20°C	1.462
Optical Rotation:	(-10°) to (-3°)	-8.44°
Linalool:	22 - 44 % (g.c.)	33.25
Linalyl Acetate:	20 - 38 % (g.c.)	30.00
Camphor:	< 0.6 %	0.22

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**CERTIFICATE OF ANALYSIS**

Product: Lavender Population Essential Oil

Lot No.: 11079A10920

Best Before: August, 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 yellow clear liquid.	Complies
Odor:	Characteristic odor	Complies
Solubility:	Insoluble in water. Soluble in ethanol (75% ) 1:2	Complies
Specific Gravity:	0.8750 to 0.8900 @ 20°C	0.883
Refractive Index:	1.4570 to 1.4670 @ 20°C	1.462
Optical Rotation:	(-10°) to (-3°)	-8.44°
Linalool:	22 - 44 % (g.c.)	33.25
Linalyl Acetate:	20 - 38 % (g.c.)	30.00
Camphor:	< 0.6 %	0.22

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## CERTIFICATE OF ANALYSIS

Product: Lavender Population Essential Oil

Lot No.: 11079 - A36

Best Before: August, 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 yellow clear liquid.	Complies
Odor:	Characteristic odor	Complies
Solubility:	Insoluble in water. Soluble in ethanol (75% ) 1:2	Complies
Specific Gravity:	0.875 to 0.890 @ 20°C	0.879
Refractive Index:	1.4590 to 1.4630 @ 20°C	1.460
Optical Rotation:	-6° to -11° @ 20°C	-8.75°
Linalool:	22 - 44 % (g.c.)	33.45
Linalyl Acetate:	20 - 38 % (g.c.)	28.33
Camphor:	< 0.6 %	0.23

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## CERTIFICATE OF ANALYSIS

Product: Lavender Population Essential Oil

Lot No.: 11079-A35,B35,C35

Best Before: August, 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:	Pale yellow clear liquid.	Complies
Odor:	Characteristic odor	Complies
Solubility:	Insoluble in water. Soluble in ethanol (75% ) 1:2	Complies
Specific Gravity:	0.875 to 0.890 @ 20°C	0.8796
Refractive Index:	1.4590 to 1.4630 @ 20°C	1.4608
Optical Rotation:	-6° to -11° @ 20°C	-9.08°
Linalool:	22 - 44 % (g.c.)	30.86
Linalyl Acetate:	20 - 38 % (g.c.)	30.98
Camphor:	< 0.6 %	0.16

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