

CERTIFICATE OF ANALYSIS

Product: Rose Geranium Organic Essential Oil
Lot No.: 50058A10819
Best Before: June, 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 dark green clear liquid.	Complies
Odor:	Sweet rosy floral aroma.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.888 to 0.900 @20°C	0.8939
Refractive Index:	1.4630 to 14730 @20°C	1.4646
Optical Rotation:	-13.0° to -7.0°	Complies
Citronellol:	18 - 26 %	23.134
Geraniol:	10 - 20 %	13.753
Linalool:	4 - 10 %	4.525

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: Rose Geranium Organic Essential Oil
Lot No.: 50058A10519
Best Before: January, 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 dark green clear liquid.	Complies
Odor:	Sweet rosy floral aroma.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.888 to 0.900 @20°C	0.8923
Refractive Index:	1.463 to 1473 @20°C	1.4640
Optical Rotation:	-13.0° to -7.0°	Complies
Citronellol:	18 - 26 %	23.786
Geraniol:	10 - 20 %	13.809
Linalool:	4 - 10 %	5.254

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CERTIFICATE OF ANALYSIS

Product: Rose Geranium Organic Essential Oil
Lot No.: 50058 - A09
Best Before: September, 2023
 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 dark green clear liquid.	Complies
Odor:	Sweet rosy floral aroma.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.888 to 0.900 @20°C	0.8915
Refractive Index:	1.463 to 1473 @20°C	1.4673
Optical Rotation:	-13.0° to -7.0°	Complies
Citronellol:	18 - 26 %	Complies
Geraniol:	10 - 20 %	12.656
Linalool:	5 - 9 %	6.291

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CERTIFICATE OF ANALYSIS

Product: Rose Geranium Organic Essential Oil
Lot No.: 50058 - A08
Best Before: August, 2023
 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 dark green clear liquid.	Complies
Odor:	Sweet rosy floral aroma.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.888 to 0.900 @20°C	0.8915
Refractive Index:	1.463 to 1473 @20°C	1.4673
Optical Rotation:	-13.0° to -7.0°	-12.61°
Citronellol:	18 - 26 %	Complies
Geraniol:	10 - 20 %	13.434 %
Linalool:	5 - 9 %	5.935 %

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CERTIFICATE OF ANALYSIS

Product: Rose Geranium Organic Essential Oil
Lot No.: 50058 - A07,B07,C07,D07,E07,F07,G07
Best Before: October, 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:	Colorless to dark green clear liquid.	Complies
Odor:	Sweet rosy floral aroma.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.888 to 0.900 @20°C	0.8920
Refractive Index:	1.463 to 1473 @20°C	1.4646
Optical Rotation:	-13.0° to -7.0°	Complies
Citronellol:	18 - 26 %	25.488 %
Geraniol:	10 - 20 %	12.717 %
Linalool:	5 - 9 %	6.515 %

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CERTIFICATE OF ANALYSIS

Product: Rose Geranium Organic Essential Oil
Lot No.: 50058 - A06,B06,C06,D06,E06,F06,G06
Best Before: September, 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:	Colorless to dark green clear liquid.	Complies
Odor:	Sweet rosy floral aroma.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.888 to 0.900 @20°C	0.8922
Refractive Index:	1.463 to 1473 @20°C	1.4657
Optical Rotation:	-13.0° to -7.0°	Complies
Citronellol:	18 - 26 %	25.720 %
Geraniol:	10 - 20 %	12.623 %
Linalool:	5 - 9 %	6.626 %

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CERTIFICATE OF ANALYSIS

Product: Rose Geranium Organic Essential Oil
Lot No.: 50058 - A05
Best Before: January, 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:	Colorless to dark green clear liquid.	Complies
Odor:	Sweet rosy floral aroma.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.888 to 0.900 @20°C	0.8941
Refractive Index:	1.463 to 1473 @20°C	1.4683
Optical Rotation:	-13.0° to -7.0°	Complies
Citronellol:	-----	24.069 %
Geraniol:	-----	13.785 %
Linalool:	-----	4.499 %

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CERTIFICATE OF ANALYSIS

Product: Rose Geranium Organic Essential Oil
 Lot No.: 50058-A04,B04,C04,D04,E04
 Best Before: August, 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:	Colorless to dark green clear liquid.	Complies
Odor:	Sweet rosy floral aroma.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.888 to 0.900 @20°C	0.8932
Refractive Index:	1.463 to 1473 @20°C	1.4665
Optical Rotation:	-13.0° to -7.0°	-12.01°
Citronellol:	-----	24.172
Geraniol:	-----	12.537 %
Linalool:	-----	5.975 %

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