

**CERTIFICATE OF ANALYSIS**

Product: Palmarosa Essential Oil  
Lot No.: 11107A10920  
Best Before: September, 2022  
Store in air tight container; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Pale yellow to pale olive liquid.	Complies
Odor:	Characteristic sweet, floral and rosy odor.	Complies
Solubility:	Soluble in 1:3 (v/v) alcohol	Complies
Specific Gravity:	0.878 to 0.892 @ 25°C	0.8834
Optical Rotation:	-2.0° to +3.0° @ 25°C	+0.48°
Refractive Index:	1.4700 to 1.4780 @ 20°C	1.4730
Geraniol:	70 - 85 %	82.25

**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: Palmarosa Essential Oil  
Lot No.: 11107A10520  
Best Before: May, 2022  
Store in air tight container; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Pale yellow to pale olive liquid.	Complies
Odor:	Characteristic sweet, floral and rosy odor.	Complies
Solubility:	Soluble in 1:3 (v/v) alcohol	Complies
Specific Gravity:	0.878 to 0.892 @ 25°C	0.8839
Optical Rotation:	-2.0° to +3.0° @ 25°C	-0.01°
Refractive Index:	1.4700 to 1.4780 @ 20°C	1.4729
Geraniol:	70 - 85 %	80.64

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## CERTIFICATE OF ANALYSIS

Product: Palmarosa Essential Oil  
Lot No.: 11107A322  
Best Before: May, 2022  
Store in air tight container; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Pale yellow to pale olive liquid.	Complies
Odor:	Characteristic sweet, floral and rosy odor.	Complies
Solubility:	Soluble in 1:3 (v/v) alcohol	Complies
Specific Gravity:	0.878 to 0.892 @ 25°C	Complies
Optical Rotation:	-2.0° to +3.0° @ 25°C	Complies
Refractive Index:	1.4700 to 1.4780 @ 20°C	Complies
Geraniol:	70 - 85 %	Complies

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## CERTIFICATE OF ANALYSIS

Product: Palmarosa Essential Oil  
Lot No.: 11107A312, 11107B312, 11107C312  
Best Before: May, 2022  
Store in air tight container; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Pale yellow to pale olive liquid.	Complies
Odor:	Characteristic sweet, floral and rosy odor.	Complies
Solubility:	Soluble in 1:3 (v/v) alcohol	Complies
Specific Gravity:	0.878 to 0.892 @ 25°C	Complies
Optical Rotation:	-2.0° to +3.0° @ 25°C	Complies
Refractive Index:	1.4700 to 1.4780 @ 20°C	Complies
Geraniol:	70 - 85 %	Complies

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## CERTIFICATE OF ANALYSIS

Product: Palmarosa Essential Oil  
Lot No.: 11107A321  
Best Before: May, 2021  
Store in air tight container; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Pale yellow to pale olive liquid.	Complies
Odor:	Characteristic sweet, floral and rosy odor.	Complies
Solubility:	Soluble in 1:3 (v/v) alcohol	Complies
Specific Gravity:	0.878 to 0.892 @ 25°C	0.891
Optical Rotation:	-2.0° to +3.0° @ 25°C	Complies
Refractive Index:	1.4700 to 1.4780 @ 20°C	1.4735
Geraniol:	70 - 85 %	Complies

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## CERTIFICATE OF ANALYSIS

Product: Palmarosa Essential Oil  
Lot No.: 11107A311, 11107B311, 11107C311  
Best Before: May, 2021  
Store in air tight container; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Pale yellow to pale olive liquid.	Complies
Odor:	Characteristic sweet, floral and rosy odor.	Complies
Solubility:	Soluble in 1:3 (v/v) alcohol	Complies
Specific Gravity:	0.878 to 0.892 @ 25°C	0.882
Optical Rotation:	-2.0° to +3.0° @ 25°C	Complies
Refractive Index:	1.4700 to 1.4780 @ 20°C	1.4733
Geraniol:	70 - 85 %	Complies

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