

CERTIFICATE OF ANALYSIS

Product: Palmarosa Essential Oil – Organic

Lot No.: 50019A10319

Best Before: March, 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 rose-like grassy note.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.878 to 0.892 @25°C	0.8825
Refractive Index:	1.470 to 1.4780 @ 20°C	1.4734
Optical Rotation:	-2° to +3°	0.11°
Geraniol:	70 – 85 %	78.45
Geranyl Acetate:	5 – 12 %	7.36

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 – Organic

Lot No.: 50019-A20

Best Before: December, 2020

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 rose-like grassy note.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.878 to 0.892 @25°C	0.8842
Refractive Index:	1.470 to 1.4780 @ 20°C	1.4726
Optical Rotation:	-2° to +3°	+0.27°
Geraniol:	70 – 85 %	81.79
Geranyl Acetate:	5 – 12 %	7.45

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## CERTIFICATE OF ANALYSIS

**Product:** Palmarosa Essential Oil – Organic

**Lot No.:** 50019-A18,B18,C18,D18

**Best Before:** December, 2019

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 rose-like grassy note.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.878 to 0.892 @25°C	0.884
Refractive Index:	1.470 to 1.4780 @ 20°C	1.473
Optical Rotation:	-2° to +3°	0.0°
Geraniol:	70 – 85 %	78.96
Geranyl Acetate:	5 – 12 %	8.82

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CERTIFICATE OF ANALYSIS

Product: Palmarosa Essential Oil – Organic

Lot No.: 50019-A17,B17

Best Before: June, 2019

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 rose-like grassy note.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.878 to 0.892 @25°C	0.883
Refractive Index:	1.470 to 1.4780 @ 20°C	1.472
Optical Rotation:	-2° to +3°	0.0°
Geraniol:	70 – 85 %	80.76
Geranyl Acetate:	5 – 12 %	7.77

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