

CERTIFICATE OF ANALYSIS

Product: Palmarosa Organic Essential Oil
 Lot No.: 50019A103192
 Best Before: March, 2023

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	Complies
Refractive Index:	1.470 to 1.4780 @ 20°C	Complies
Optical Rotation:	-2° to +3°	Complies
Geraniol:	70 – 85 %	Complies
Geranyl Acetate:	5 – 12 %	Complies

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 Organic Essential Oil
 Lot No.: 50019B11020
 Best Before: October, 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 rose-like grassy note.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.876 to 0.902 @20°C	0.882
Refractive Index:	1.470 to 1.485 @ 20°C	1.473
Optical Rotation:	-1° to +3°	-0.79°
Geraniol:	Min 77%	80.8%
Geranyl Acetate:	Max 15%	10.5%

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CERTIFICATE OF ANALYSIS

Product: Palmarosa Organic Essential Oil
 Lot No.: 50019A10820
 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 rose-like grassy note.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.876 to 0.902 @20°C	0.882
Refractive Index:	1.470 to 1.485 @ 20°C	1.473
Optical Rotation:	-1° to +3°	-0.79°
Geraniol:	Min 77%	80.8%
Geranyl Acetate:	Max 15%	10.5%

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CERTIFICATE OF ANALYSIS

Product: Palmarosa Organic Essential Oil
 Lot No.: 50019A103191
 Best Before: March, 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 rose-like grassy note.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.878 to 0.892 @25°C	Complies
Refractive Index:	1.470 to 1.4780 @ 20°C	Complies
Optical Rotation:	-2° to +3°	Complies
Geraniol:	70 - 85 %	Complies
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