

CERTIFICATE OF ANALYSIS

Product: Citronella (Java) Essential Oil
 Lot No: 11229C110191
 Best Before Date: December, 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:	Yellow to amber liquid.	Complies
Odor:	Characteristic citronella citrus odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.875 to 0.893 @ 25°C	Complies
Refractive Index:	1.466 to 1.474 @ 20°C	Complies
Optical Rotation:	-7° to 0°C @ 25°C	Complies
Geraniol:	18 to 25 %	Complies
Citronellal:	31 to 40 %	Complies
Citronellol:	8 - 14 %	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: Citronella (Java) Essential Oil

Lot No: 11229A10220

Best Before Date: February, 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:	Yellow to amber liquid.	Complies
Odor:	Characteristic citronella citrus odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.875 to 0.893 @ 25°C	0.883
Refractive Index:	1.466 to 1.474 @ 20°C	1.469
Optical Rotation:	-7° to 0°C @ 25°C	-2.61°
Geraniol:	18 to 25 %	22.05
Citronellal:	31 to 40 %	39.63
Citronellol:	8 - 14 %	12.35

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CERTIFICATE OF ANALYSIS

Product: Citronella (Java) Essential Oil

Lot No: 11229D11219

Best Before Date: December, 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:	Yellow to amber liquid.	Complies
Odor:	Characteristic citronella citrus odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.875 to 0.893 @ 25°C	0.883
Refractive Index:	1.466 to 1.474 @ 20°C	1.469
Optical Rotation:	-7° to 0°C @ 25°C	-2.10°
Geraniol:	18 to 25 %	21.39
Citronellal:	31 to 40 %	39.88
Citronellol:	8 - 14 %	9.04

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CERTIFICATE OF ANALYSIS

Product: Citronella (Java) Essential Oil

Lot No: 11229C11019

Best Before Date: December, 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:	Yellow to amber liquid.	Complies
Odor:	Characteristic citronella citrus odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.875 to 0.893 @ 25°C	0.884
Refractive Index:	1.466 to 1.474 @ 20°C	1.466
Optical Rotation:	-7° to 0°C @ 25°C	-1.18°
Geraniol:	18 to 25 %	24.94
Citronellal:	31 to 40 %	35.92
Citronellol:	8 - 14 %	9.41

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CERTIFICATE OF ANALYSIS

Product: Citronella (Java) Essential Oil
 Lot No: 11229B10919
 Best Before Date: September, 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:	Yellow to amber liquid.	Complies
Odor:	Characteristic citronella citrus odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.865 to 0.895 @ 25°C	0.8786
Refractive Index:	1.460 to 1.480 @ 20°C	1.466
Geraniol:	-----	17.88
Citronellal:	-----	45.26
Citronellol:	-----	14.20
Eugenol:	-----	0.97

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CERTIFICATE OF ANALYSIS

Product: Citronella (Java) Essential Oil
 Lot No: 11229A10819
 Best Before Date: 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:	Yellow to amber liquid.	Complies
Odor:	Characteristic citronella citrus odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.865 to 0.895 @ 25°C	0.8786
Refractive Index:	1.460 to 1.480 @ 20°C	1.466
Geraniol:	-----	17.88
Citronellal:	-----	45.26
Citronellol:	-----	14.20
Eugenol:	-----	0.97

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CERTIFICATE OF ANALYSIS

Product: Citronella (Java) Essential Oil
Lot No: 11229A321
Best Before Date: July, 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:	Almost colourless to yellowish brown liquid.	Complies
Odor:	Strong lemon-like odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.8800 to 0.9220 @ 20°C	0.881
Refractive Index:	1.466 to 1.475 @ 20°C	1.4670
Optical Rotation:	-7° to 0° @ 25°C	Complies
Total Geraniol:	≥ 85%	Complies
Citronellal:	≥ 35%	Complies

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CERTIFICATE OF ANALYSIS

Product: Citronella (Java) Essential Oil
Lot No: 11229A311, 11229B311, 11229C311
Best Before Date: February, 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:	Almost colourless to yellowish brown liquid.	Complies
Odor:	Strong lemon-like odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.8800 to 0.9220 @ 20°C	Complies
Refractive Index:	1.466 to 1.475 @ 20°C	1.4671
Optical Rotation:	-7° to 0° @ 25°C	-2.77°
Total Geraniol:	≥ 85%	Complies
Citronellal:	≥ 35%	Complies

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