

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 |

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: 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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CERTIFICATE OF ANALYSIS

Product: Citronella (Java) Essential Oil
Lot No: 11229A301, 11229B301, 11229C301, 11229D301, 11229E301
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 | 1.4668 |
| 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: 11229 - A32
Best Before Date: July, 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: | 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 | 0.8809 |
| Refractive Index: | 1.466 to 1.475 @ 20°C | 1.4658 |
| Optical Rotation: | -0° to -7° @ 25°C | Complies |
| Total Geraniol: | ≥ 85% | 86.73 |
| Citronellal: | ≥ 35% | 48.03 |

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CERTIFICATE OF ANALYSIS

Product: Citronella (Java) Essential Oil
 Lot No: 11229 - A31,B31,C31
 Best Before Date: February, 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: | 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 | 0.8814 |
| Refractive Index: | 1.466 to 1.475 @ 20°C | 1.4660 |
| Optical Rotation: | -0° to -7° @ 25°C | Complies |
| Total Geraniol: | ≥ 85% | 86.72 |
| Citronellal: | ≥ 35% | 48.62 |

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CERTIFICATE OF ANALYSIS

Product: Citronella (Java) Essential Oil
 Lot No: 11229 - A30,B30,C30,D30,E30
 Best Before Date: 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: | 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 | 0.8807 |
| Refractive Index: | 1.466 to 1.475 @ 20°C | 1.4657 |
| Optical Rotation: | -0° to -7° @ 25°C | Complies |
| Total Geraniol: | ≥ 85% | 86.26 |
| Citronellal: | ≥ 35% | 49.00 |

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CERTIFICATE OF ANALYSIS

Product: Citronella (Java) Essential Oil
Lot No: 11229 - A29,B29,C29,D29,E29,F29
Best Before Date: July, 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: | 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 | 0.8811 |
| Refractive Index: | 1.466 to 1.475 @ 20°C | 1.4656 |
| Optical Rotation: | -7° to 0° @ 25°C | Complies |
| Total Geraniol: | ≥ 85% | 87.51 |
| Citronellal: | ≥ 35% | 50.64 |

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CERTIFICATE OF ANALYSIS

Product: Citronella (Java) Essential Oil

Lot No: 11229 - A28

Best Before Date: May, 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: | 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 | 0.8811 |
| Refractive Index: | 1.466 to 1.475 @ 20°C | 1.4656 |
| Optical Rotation: | -7° to 0° @ 25°C | Complies |
| Total Geraniol: | ≥ 85% | 85.56 |
| Citronellal: | ≥ 35% | 48.76 |

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