

CERTIFICATE OF ANALYSIS

Product: Nutmeg (India) Essential Oil

Lot No.: 11101A104192

Best Before: April, 2023

Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Property</u>	<u>Specification</u>	<u>Result</u>
Appearance:	Colorless to pale yellow liquid.	Complies
Odor:	Warm, Spicy and aromatically sweet with pine odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.852 to 0.915 @ 20°C	Complies
Optical Rotation:	+6° to +30° @ 20°C	Complies
Refractive Index:	1.467 to 1.490 @ 20°C	Complies
Sabinine:	12 - 33 %	Complies
a-pinene:	11 - 21 %	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: Nutmeg (India) Essential Oil

Lot No.: 11101B10321

Best Before: March, 2023

Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Property</u>	<u>Specification</u>	<u>Result</u>
Appearance:	Colorless to pale yellow liquid.	Complies
Odor:	Warm, Spicy and aromatically sweet with pine odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.852 to 0.915 @ 20°C	0.871
Optical Rotation:	+6° to +30° @ 20°C	+23.4
Refractive Index:	1.467 to 1.490 @ 20°C	1.472
Sabinine:	12 - 33 %	22.6
a-pinene:	11 - 21 %	17.9
β-pinene:	10 - 20 %	15.4

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CERTIFICATE OF ANALYSIS

Product: Nutmeg (India) Essential Oil

Lot No.: 11101A103201

Best Before: March, 2023

Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Property</u>	<u>Specification</u>	<u>Result</u>
Appearance:	Colorless to pale yellow liquid.	Complies
Odor:	Warm, Spicy and aromatically sweet with pine odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.852 to 0.915 @ 20°C	Complies
Optical Rotation:	+6° to +30° @ 20°C	Complies
Refractive Index:	1.467 to 1.490 @ 20°C	Complies
Sabinine:	12 - 33 %	Complies
a-pinene:	11 - 21 %	Complies

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CERTIFICATE OF ANALYSIS

Product: Nutmeg (India) Essential Oil

Lot No.: 11101A10221

Best Before: January, 2023

Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Property</u>	<u>Specification</u>	<u>Result</u>
Appearance:	Colorless to pale yellow liquid.	Complies
Odor:	Warm, Spicy and aromatically sweet with pine odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.854 to 0.880 @ 25°C	0.8770
Optical Rotation:	+20.0° to +45.5° @ 25°C	+23.19
Refractive Index:	1.469 to 1.476 @ 25°C	1.4755
Sabinine:	23 - 33 %	29.5
a-pinene:	14 - 20 %	16.8
β-pinene:	10 - 15 %	10.8

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CERTIFICATE OF ANALYSIS

Product: Nutmeg (India) Essential Oil

Lot No.: 11101A105191

Best Before: May, 2022

Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Property</u>	<u>Specification</u>	<u>Result</u>
Appearance:	Colorless to pale yellow liquid.	Complies
Odor:	Warm, Spicy and aromatically sweet with pine odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.852 to 0.915 @ 20°C	Complies
Optical Rotation:	+6° to +30° @ 20°C	Complies
Refractive Index:	1.467 to 1.490 @ 20°C	Complies
Sabinine:	12 - 33 %	Complies
a-pinene:	11 - 21 %	Complies

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Product: Nutmeg (India) Essential Oil

Lot No.: 11101A104191

Best Before: April, 2022

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<u>Property</u>	<u>Specification</u>	<u>Result</u>
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Specific Gravity:	0.852 to 0.915 @ 20°C	Complies
Optical Rotation:	+6° to +30° @ 20°C	Complies
Refractive Index:	1.467 to 1.490 @ 20°C	Complies
Sabinine:	12 - 33 %	Complies
a-pinene:	11 - 21 %	Complies

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CERTIFICATE OF ANALYSIS

Product: Nutmeg (India) Essential Oil

Lot No.: 11101A10320

Best Before: March, 2022

Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Property</u>	<u>Specification</u>	<u>Result</u>
Appearance:	Colorless to pale yellow liquid.	Complies
Odor:	Warm, Spicy and aromatically sweet with pine odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.852 to 0.915 @ 20°C	0.872
Optical Rotation:	+6° to +30° @ 20°C	+22.8°
Refractive Index:	1.467 to 1.490 @ 20°C	1.471
Sabinine:	12 - 33 %	24.8 %
a-pinene:	11 - 21 %	17.8

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