

CERTIFICATE OF ANALYSIS

Product: Juniper Berry Essential Oil (India)

Lot No.: 11072A10920

Best Before: September, 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:	Colorless to pale yellow clear liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Soluble in Alcohol.	Complies
Specific Gravity:	0.8402 to 0.8883 @ 20°C	0.8540
Refractive Index:	1.4510 to 1.4970 @ 20°C	1.4739
Optical Rotation:	-15° to +15°	-6.55°
α - Pinene:	30 - 50 %	38.47 %
Myrcene:	15 - 30 %	22.85 %
Limonene:	5 - 15 %	8.12 %

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: Juniper Berry Essential Oil (India)

Lot No.: 11072A10620

Best Before: June, 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:	Colorless to pale yellow clear liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Soluble in Alcohol.	Complies
Specific Gravity:	0.8402 to 0.8883 @ 20°C	0.8532
Refractive Index:	1.4510 to 1.4970 @ 20°C	1.4735
Optical Rotation:	-15° to +15°	-6.48°
α - Pinene:	30 - 50 %	38.78 %
Myrcene:	15 - 30 %	19.07 %
Limonene:	5 - 15 %	9.17 %

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CERTIFICATE OF ANALYSIS

Product: Juniper Berry Essential Oil (India)

Lot No.: 11072A104191

Best Before: April, 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:	Light yellow to clear liquid.	Complies
Odor:	Warm spicy, pungent and peculiar characteristic of berries.	Complies
Solubility:	Soluble in Alcohol.	Complies
Specific Gravity:	0.858 to 0.880 @ 20°C	Complies
Refractive Index:	1.457 to 1.482 @ 20°C	Complies
Optical Rotation:	+2° to 24°	Complies
α- Pinene:	25 - 65 %	Complies

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CERTIFICATE OF ANALYSIS

Product: Juniper Berry Essential Oil (India)

Lot No.: 11072-A231

Best Before: 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:	Light yellow to clear liquid.	Complies
Odor:	Warm spicy, pungent and peculiar characteristic of berries.	Complies
Solubility:	Soluble in Alcohol.	Complies
Specific Gravity:	0.858 to 0.880 @ 20°C	Complies
Refractive Index:	1.457 to 1.482 @ 20°C	Complies
Optical Rotation:	+2° to 24°	Complies
α- Pinene:	25 - 65 %	Complies

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CERTIFICATE OF ANALYSIS

Product: Juniper Berry Essential Oil (India)

Lot No.: 11072A10419

Best Before: April, 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:	Light yellow to clear liquid.	Complies
Odor:	Warm spicy, pungent and peculiar characteristic of berries.	Complies
Solubility:	Soluble in Alcohol.	Complies
Specific Gravity:	0.858 to 0.880 @ 20°C	0.871
Refractive Index:	1.457 to 1.482 @ 20°C	1.459
Optical Rotation:	+2° to 24°	+18.1°
α - Pinene:	25 - 65 %	59.8

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