

CERTIFICATE OF ANALYSIS

Product: Juniper Berry Essential Oil (Slovenia)

Lot No.: 11273D09

Best Before: January, 2023

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Yellow to yellowish clear liquid.	Complies
Odor:	Typical balsamic odor.	Complies
Solubility:	Insoluble in water.	Complies
Density:	0.865 to 0.879 @ 20°C	Complies
Refractive Index:	1.4760 to 1.4880 @ 20°C	Complies
Optical Rotation:	-15° to 0° @ 20°C	Complies
α -pinene:	20 - 50 %	33.6
Sabinene:	< 20 %	18.9
β -pinene:	1 - 12 %	1.9
β -myrcene:	1 - 35 %	16.8
Limonene:	2 - 12 %	4.9
Terpinene-4-ol:	0.5 - 10 %	1.1
β -Caryophyllene:	< 7 %	1.6

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 (Slovenia)

Lot No.: 11273C09

Best Before: January, 2023

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<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
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CERTIFICATE OF ANALYSIS

Product: Juniper Berry Essential Oil (Slovenia)

Lot No.: 11273B09

Best Before: January, 2023

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Yellow to yellowish clear liquid.	Complies
Odor:	Typical balsamic odor.	Complies
Solubility:	Insoluble in water.	Complies
Density:	0.865 to 0.879 @ 20°C	Complies
Refractive Index:	1.4760 to 1.4880 @ 20°C	Complies
Optical Rotation:	-15° to 0° @ 20°C	Complies
α -pinene:	20 - 50 %	33.6
Sabinene:	< 20 %	18.9
β -pinene:	1 - 12 %	1.9
β -myrcene:	1 - 35 %	16.8
Limonene:	2 - 12 %	4.9
Terpinene-4-ol:	0.5 - 10 %	1.1
β -Caryophyllene:	< 7 %	1.6

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CERTIFICATE OF ANALYSIS

Product: Juniper Berry Essential Oil (Slovenia)

Lot No.: 11273A09

Best Before: January, 2023

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Yellow to yellowish clear liquid.	Complies
Odor:	Typical balsamic odor.	Complies
Solubility:	Insoluble in water.	Complies
Density:	0.865 to 0.879 @ 20°C	Complies
Refractive Index:	1.4760 to 1.4880 @ 20°C	Complies
Optical Rotation:	-15° to 0° @ 20°C	Complies
α -pinene:	20 - 50 %	33.6
Sabinene:	< 20 %	18.9
β -pinene:	1 - 12 %	1.9
β -myrcene:	1 - 35 %	16.8
Limonene:	2 - 12 %	4.9
Terpinene-4-ol:	0.5 - 10 %	1.1
β -Caryophyllene:	< 7 %	1.6

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CERTIFICATE OF ANALYSIS

Product: Juniper Berry Essential Oil (Slovenia)

Lot No.: 11273A08

Best Before: November, 2021

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Yellow to yellowish clear liquid.	Complies
Odor:	Typical balsamic odor.	Complies
Solubility:	Insoluble in water.	Complies
Density:	0.865 to 0.879 @ 20°C	0.8751
Refractive Index:	1.4760 to 1.4880 @ 20°C	1.479
Optical Rotation:	-15° to 0° @ 20°C	Complies
α -pinene:	20 - 50 %	35.4
Sabinene:	< 20 %	11.2
β -pinene:	1 - 12 %	2.1
β -myrcene:	1 - 35 %	11.1
Limonene:	2 - 12 %	5.4
Terpinene-4-ol:	0.5 - 10 %	3.3
β -Caryophyllene:	< 7 %	1.6

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