

CERTIFICATE OF ANALYSIS

Product: Spruce Organic Essential Oil - Black

Lot No.: 50057A10321

Best Before: January, 2026

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Clear light yellow to greenish liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.890 to 0.920 @ 20°C	0.905
Optical Rotation:	-30° to -15° @ 20°C	Complies
Refractive Index:	1.460 to 1.500 @ 20°C	1.4708
α -Pinene:	16 - 24 %	20.7
Camphene:	13 - 23 %	16.2
β -Pinene:	< 8.5 %	6.0
Δ 3-Carene:	6 - 12 %	8.6
Bornyl Acetate:	18 - 25 %	21.6

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: Spruce Organic Essential Oil - Black

Lot No.: 50057A10120

Best Before: November, 2024

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Clear light yellow to greenish liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.890 to 0.920 @ 20°C	0.9
Optical Rotation:	-30° to -15° @ 20°C	Complies
Refractive Index:	1.460 to 1.500 @ 20°C	1.4716
α -Pinene:	16 - 24 %	20.1
Camphene:	13 - 23 %	14.5
β -Pinene:	< 8.5 %	8.0
Δ 3-Carene:	6 - 12 %	9.4
Bornyl Acetate:	18 - 25 %	18.9

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CERTIFICATE OF ANALYSIS

Product: Spruce Organic Essential Oil - Black

Lot No.: 50057A11119

Best Before: September, 2024

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Clear light yellow to greenish liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.890 to 0.920 @ 20°C	Complies
Optical Rotation:	-30° to -15° @ 20°C	Complies
Refractive Index:	1.460 to 1.500 @ 20°C	1.4718
α -Pinene:	16 - 24 %	19.9
Camphene:	13 - 23 %	15.3
β -Pinene:	< 8.5 %	6.4
Δ 3-Carene:	6 - 12 %	8.8
Bornyl Acetate:	18 - 25 %	20.1

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CERTIFICATE OF ANALYSIS

Product: Spruce Organic Essential Oil - Black

Lot No.: 50057A10519

Best Before: March, 2024

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Clear light yellow to greenish liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.890 to 0.920 @ 20°C	Complies
Optical Rotation:	-30° to -15° @ 20°C	Complies
Refractive Index:	1.460 to 1.500 @ 20°C	1.4715
α -Pinene:	18 - 24 %	19.9
Camphene:	13 - 23 %	15.7
β -Pinene:	< 8.5 %	5.2
Δ 3-Carene:	7 - 12 %	8.9
Bornyl Acetate:	18 - 25 %	20.0

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CERTIFICATE OF ANALYSIS

Product: Spruce Organic Essential Oil - Black

Lot No.: 50057B10620

Best Before: January, 2024

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Clear light yellow to greenish liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.890 to 0.920 @ 20°C	0.9
Optical Rotation:	-30° to -15° @ 20°C	Complies
Refractive Index:	1.460 to 1.500 @ 20°C	1.4718
α -Pinene:	16 - 24 %	21.4
Camphene:	13 - 23 %	14.5
β -Pinene:	< 8.5 %	6.9
Δ 3-Carene:	6 - 12 %	8.9
Bornyl Acetate:	18 - 25 %	18.5

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