

CERTIFICATE OF ANALYSIS

Product: Spruce Black (Wild) Essential Oil

Lot No.: 11137F10720

Best Before: November, 2024

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:	Clear, light yellow to greenish liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.890 to 0.920	0.9
Refractive Index:	1.460 to 1.500	1.4716
Optical Rotation:	-30° to -15°	Complies
α -Pinene:	18 - 24 %	20.1
Camphene:	13 - 23 %	14.5
β -Pinene:	< 8.5 %	8.0
Δ 3-Carene:	7 - 12 %	9.4
Bornyl Acetate:	18 - 25 %	18.9

Disclaimer & Caution

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CERTIFICATE OF ANALYSIS

Product: Spruce Black (Wild) Essential Oil

Lot No.: 11137E10620

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CERTIFICATE OF ANALYSIS

Product: Spruce Black (Wild) Essential Oil

Lot No.: 11137D10420

Best Before: November, 2024

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<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
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Odor:	Characteristic odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.890 to 0.920	0.9
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Optical Rotation:	-30° to -15°	Complies
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Camphene:	13 - 23 %	14.5
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CERTIFICATE OF ANALYSIS

Product: Spruce Black (Wild) Essential Oil

Lot No.: 11137C10420

Best Before: November, 2024

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CERTIFICATE OF ANALYSIS

Product: Spruce Black (Wild) Essential Oil

Lot No.: 11137B10320

Best Before: November, 2024

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<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
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Odor:	Characteristic odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.890 to 0.920	0.9
Refractive Index:	1.460 to 1.500	1.4716
Optical Rotation:	-30° to -15°	Complies
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Camphene:	13 - 23 %	14.5
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CERTIFICATE OF ANALYSIS

Product: Spruce Black (Wild) Essential Oil

Lot No.: 11137A10220

Best Before: November, 2024

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CERTIFICATE OF ANALYSIS

Product: Spruce Black (Wild) Essential Oil

Lot No.: 11137H10820

Best Before: January, 2024

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<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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Product: Spruce Black (Wild) Essential Oil

Lot No.: 11137G10720

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