

CERTIFICATE OF ANALYSIS

Product: Spruce Black Organic Essential Oil

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

Disclaimer & Caution

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CERTIFICATE OF ANALYSIS

Product: Spruce Black Organic Essential Oil

Lot No.: 50057 - A12

Best Before: April, 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:	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	0.895
Optical Rotation:	-30° to -15° @ 20°C	Complies
Refractive Index:	1.460 to 1.500 @ 20°C	1.4718
α -Pinene:	18 - 24 %	19.3
Camphene:	13 - 23 %	16.5
β -Pinene:	< 8.5 %	4.7
Δ 3-Carene:	7 - 12 %	9.3
Bornyl Acetate:	18 - 25 %	21.2

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CERTIFICATE OF ANALYSIS

Product: Spruce Black Organic Essential Oil

Lot No.: 50057 - A11

Best Before: April, 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:	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	0.895
Optical Rotation:	-30° to -15° @ 20°C	Complies
Refractive Index:	1.460 to 1.500 @ 20°C	1.4718
α -Pinene:	18 - 24 %	19.3
Camphene:	13 - 23 %	16.5
β -Pinene:	< 8.5 %	4.7
Δ 3-Carene:	7 - 12 %	9.3
Bornyl Acetate:	18 - 25 %	21.2

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CERTIFICATE OF ANALYSIS

Product: Spruce Black Organic Essential Oil

Lot No.: 50057- A10,B10,C10,D10,E10,F10

Best Before: September, 2022

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	0.897
Optical Rotation:	-30° to -15° @ 20°C	-20.43°
Refractive Index:	1.460 to 1.500 @ 20°C	1.4637
α -Pinene:	18 - 24 %	20.1
Camphene:	13 - 23 %	15.5
β -Pinene:	< 8.5 %	5.5
Δ 3-Carene:	7 - 12 %	9.7
Bornyl Acetate:	18 - 25 %	19.8

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CERTIFICATE OF ANALYSIS

Product: Spruce Black Organic Essential Oil

Lot No.: 50057- A09,B09

Best Before: September, 2022

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	0.898
Optical Rotation:	-30° to -15° @ 20°C	-19.89°
Refractive Index:	1.460 to 1.500 @ 20°C	1.4729
α -Pinene:	18 - 24 %	19.2
Camphene:	13 - 23 %	14.1
β -Pinene:	< 8.5 %	7.8
Δ 3-Carene:	7 - 12 %	9.9
Bornyl Acetate:	18 - 24 %	19.5

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CERTIFICATE OF ANALYSIS

Product: Spruce Black Organic Essential Oil

Lot No.: 50057- A08,B08,C08,D08

Best Before: September, 2022

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	0.898
Optical Rotation:	-30° to -15° @ 20°C	-19.89°
Refractive Index:	1.460 to 1.500 @ 20°C	1.4729
α -Pinene:	18 - 24 %	19.2
Camphene:	13 - 23 %	14.1
β -Pinene:	< 8.5 %	7.8
Δ 3-Carene:	7 - 12 %	9.9
Bornyl Acetate:	18 - 24 %	19.5

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CERTIFICATE OF ANALYSIS

Product: Spruce Black Organic Essential Oil

Lot No.: 50057- A07,B07,C07,D07,E07,F07

Best Before: August, 2022

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	0.896
Optical Rotation:	-30° to -15° @ 20°C	-22.67°
Refractive Index:	1.460 to 1.500 @ 20°C	1.4718
α -Pinene:	18 - 24 %	18.1
Camphene:	13 - 23 %	16.1
β -Pinene:	< 8.5 %	5.3
Δ 3-Carene:	7 - 12 %	9.5
Bornyl Acetate:	18 - 24 %	21.1

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CERTIFICATE OF ANALYSIS

Product: Spruce Black Organic Essential Oil

Lot No.: 50057-A06,B06,C06,D06,E06,F06

Best Before: March, 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:	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	0.894
Optical Rotation:	-30° to -15° @ 20°C	-19.93°
Refractive Index:	1.460 to 1.500 @ 20°C	1.4725
α -Pinene:	18 - 24 %	19.1
Camphene:	13 - 23 %	16.9
β -Pinene:	< 8.5 %	6.5
Δ 3-Carene:	7 - 12 %	9.6
Bornyl Acetate:	18 - 24 %	21.2

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