

CERTIFICATE OF ANALYSIS

Product: Pepper Black Organic Essential Oil

Lot No.: 50020-A14

Best Before: October, 2023

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Colorless to very pale bluish green liquid.	Complies
Odor:	Characteristic black pepper odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.8600 to 0.9100 @ 20°C	0.8663
Optical Rotation:	-20° to +4°	-19.061°
Refractive Index:	1.4700 to 1.4900 @ 20°C	1.4756
α -pinene:	8 - 20 %	15.76
β -pinene:	10 - 15 %	11.37
Sabinene:	5 - 15 %	13.75
Limonene:	10 - 20 %	15.14

Disclaimer & Caution:

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CERTIFICATE OF ANALYSIS

Product: Pepper Black Organic Essential Oil

Lot No.: 50020-A13,B13,C13,D13

Best Before: October, 2022

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Colorless to very pale bluish green liquid.	Complies
Odor:	Characteristic black pepper odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.8600 to 0.9070 @ 30°C	0.8739
Optical Rotation:	-20° to +4° @ 25°C	-9.10°
Refractive Index:	1.4740 to 1.4900 @ 25°C	1.4806
α-pinene:	8 - 18 %	11.49
β-pinene:	10 - 14 %	10.98
Sabinene:	7 - 15 %	9.68
Limonene:	13 - 17 %	15.44

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CERTIFICATE OF ANALYSIS

Product: Pepper Black Organic Essential Oil

Lot No.: 50020-A12,B12,C12,D12

Best Before: September, 2022

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Colorless to very pale bluish green liquid.	Complies
Odor:	Characteristic black pepper odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.8600 to 0.9070 @ 30°C	0.8739
Optical Rotation:	-20° to +4° @ 25°C	-9.10°
Refractive Index:	1.4740 to 1.4900 @ 25°C	1.4806
α -pinene:	13 - 18 %	11.49
β -pinene:	10 - 14 %	10.98
Sabinene:	8 - 15 %	9.68
Limonene:	13 - 17 %	15.44

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CERTIFICATE OF ANALYSIS

Product: Pepper Black Organic Essential Oil

Lot No.: 50020-A11,B11,C11,D11,E11,F11

Best Before: January, 2022

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Colorless to very pale bluish green liquid.	Complies
Odor:	Characteristic black pepper odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.8600 to 0.9070 @ 30°C	0.8739
Optical Rotation:	-20° to +4° @ 25°C	-7.50°
Refractive Index:	1.4740 to 1.4900 @ 25°C	1.4788
α-pinene:	13 - 18 %	13.05
β-pinene:	10 - 14 %	11.37
Sabinene:	8 - 15 %	11.65
Limonene:	13 - 17 %	15.46

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CERTIFICATE OF ANALYSIS

Product: Pepper Black Organic Essential Oil

Lot No.: 50020-A10,B10,C10,D10

Best Before: January, 2022

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Colorless to very pale bluish green liquid.	Complies
Odor:	Characteristic black pepper odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.8600 to 0.9070 @ 30°C	0.8733
Optical Rotation:	-20° to +4° @ 25°C	-7.60°
Refractive Index:	1.4740 to 1.4900 @ 25°C	1.4814
α -pinene:	13 - 18 %	13.99
β -pinene:	10 - 14 %	11.07
Sabinene:	8 - 15 %	12.36
Limonene:	13 - 17 %	14.79

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CERTIFICATE OF ANALYSIS

Product: Pepper Black Organic Essential Oil

Lot No.: 50020-A09,B09

Best Before: April, 2021

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Colorless to very pale bluish green liquid.	Complies
Odor:	Characteristic black pepper odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.8600 to 0.9070 @ 30°C	0.8733
Optical Rotation:	-20° to +4° @ 25°C	-7.60°
Refractive Index:	1.4740 to 1.4900 @ 25°C	1.4814
α -pinene:	13 - 18 %	13.99
β -pinene:	10 - 14 %	11.07
Sabinene:	8 - 15 %	12.36
Limonene:	13 - 17 %	14.79

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CERTIFICATE OF ANALYSIS

Product: Pepper Black Organic Essential Oil

Lot No.: 50020-A08

Best Before: February, 2021

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Colorless to very pale bluish green liquid.	Complies
Odor:	Characteristic black pepper odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.8600 to 0.9070 @ 30°C	0.8714
Optical Rotation:	-20° to +4° @ 25°C	-7.20°
Refractive Index:	1.4740 to 1.4900 @ 25°C	1.4802
α-pinene:	13 - 18 %	Complies
β-pinene:	10 - 14 %	12.00
Sabinene:	8 - 15 %	12.66
Limonene:	13 - 17 %	16.43

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