

CERTIFICATE OF ANALYSIS

Product: Patchouli Dark Essential Oil

Lot No: 11109B11020

Best Before: October, 2022

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:	Brown to dark brown liquid.	Complies
Odor:	Sweet-herbaceous, aromatic-spicy and woody-balsamic odor.	Complies
Solubility:	1 vol. clear soluble in 9 vol. of 90% ethanol.	Complies
Specific Gravity:	0.950 to 0.975 @ 25°C	0.966
Refractive Index:	1.505 to 1.515 @ 20°C	1.508
Optical Rotation:	-65° to -48° @ 25°C	-49.40°
Acid Value:	< 7 mgKOH/gms	4.41
Patchouli Alcohol:	Min. 30 %	30.53
Bulnesene:	13 - 21 %	17.31

Disclaimer & Caution

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Product: Patchouli Dark Essential Oil

Lot No: 11109A10920

Best Before: September, 2022

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:	Brown to dark brown liquid.	Complies
Odor:	Sweet-herbaceous, aromatic-spicy and woody-balsamic odor.	Complies
Solubility:	1 vol. clear soluble in 9 vol. of 90% ethanol.	Complies
Specific Gravity:	0.952 to 0.975 @ 25°C	0.970
Refractive Index:	1.505 to 1.515 @ 20°C	1.509
Optical Rotation:	-60° to -40° @ 25°C	-47.560°
Acid Value:	< 7 mgKOH/gms	Complies
Patchouli Alcohol:	Min. 30 %	33.50
Bulnesene:	13 - 21 %	Complies

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CERTIFICATE OF ANALYSIS

Product: Patchouli Dark Essential Oil

Lot No: 11109A10220

Best Before: February, 2022

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:	Brown to dark brown liquid.	Complies
Odor:	Sweet-herbaceous, aromatic-spicy and woody-balsamic odor.	Complies
Solubility:	1 vol. clear soluble in 9 vol. of 90% ethanol.	Complies
Specific Gravity:	0.950 to 0.975 @ 25°C	0.968
Refractive Index:	1.505 to 1.515 @ 20°C	1.509
Optical Rotation:	-65° to -48° @ 25°C	-48.6°
Acid Value:	< 7 mgKOH/gms	5.96
Patchouli Alcohol:	30 – 31.8 %	30.20
Bulnesene:	13 – 21 %	17.03

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CERTIFICATE OF ANALYSIS

Product: Patchouli Dark Essential Oil

Lot No: 11109B11219

Best Before: December, 2021

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:	Brown to dark brown liquid.	Complies
Odor:	Sweet-herbaceous, aromatic-spicy and woody-balsamic odor.	Complies
Solubility:	1 vol. clear soluble in 9 vol. of 90% ethanol.	Complies
Specific Gravity:	0.950 to 0.975 @ 25°C	0.968
Refractive Index:	1.505 to 1.515 @ 20°C	1.509
Optical Rotation:	-65° to -48° @ 25°C	-48.6°
Acid Value:	< 7 mgKOH/gms	5.96
Patchouli Alcohol:	30 – 31.8 %	30.93
Bulnesene:	13 – 21 %	16.35

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CERTIFICATE OF ANALYSIS

Product: Patchouli Dark Essential Oil
 Lot No: 11109B352
 Best Before: December, 2021

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:	Brown to dark brown liquid.	Complies
Odor:	Characteristic woody earthy, camphorated medicinal odor.	Complies
Solubility:	Soluble in 1:10 (V/V) dilution in 90 % dilution.	Complies
Specific Gravity:	0.950 - 0.975 @ 20°C	Complies
Refractive Index:	1.5070 - 1.5150 @ 20°C	Complies
Acid Value:	< 8	Complies
Ester Value:	< 20	Complies
Patchouli Alcohol:	≥ 30%	Complies

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CERTIFICATE OF ANALYSIS

Product: Patchouli Dark Essential Oil
 Lot No: 11109A371
 Best Before: November, 2021

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:	Brown to dark brown liquid.	Complies
Odor:	Characteristic woody earthy, camphorated medicinal odor.	Complies
Solubility:	Soluble in 1:10 (V/V) dilution in 90 % dilution.	Complies
Specific Gravity:	0.950 - 0.975 @ 20°C	0.958
Refractive Index:	1.5070 - 1.5150 @ 20°C	1.5087
Acid Value:	< 8	Complies
Ester Value:	< 20	Complies
Patchouli Alcohol:	≥ 30%	Complies

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CERTIFICATE OF ANALYSIS

Product: Patchouli Dark Essential Oil
 Lot No: 11109A10919
 Best Before: September, 2021

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:	Brown to dark brown liquid.	Complies
Odor:	Sweet-herbaceous, aromatic-spicy and woody-balsamic odor.	Complies
Solubility:	1 vol. clear soluble in 9 vol. of 90% ethanol.	Complies
Specific Gravity:	0.950 to 0.975 @ 25°C	0.975
Refractive Index:	1.505 to 1.515 @ 20°C	1.507
Optical Rotation:	-65° to -48° @ 25°C	-48.81°
Acid Value:	< 7 mgKOH/gms	3.19
Patchouli Alcohol:	30 – 31.8 %	30.78
Bulnesene:	13 – 21 %	16.45

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CERTIFICATE OF ANALYSIS

Product: Patchouli Dark Essential Oil
Lot No: 11109A361
Best Before: July, 2021

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:	Brown to dark brown liquid.	Complies
Odor:	Characteristic woody earthy, camphorated medicinal odor.	Complies
Solubility:	Soluble in 1:10 (V/V) dilution in 90 % dilution.	Complies
Specific Gravity:	0.950 - 0.975 @ 20°C	0.9580
Refractive Index:	1.5070 - 1.5150 @ 20°C	1.5087
Acid Value:	< 8	Complies
Ester Value:	< 20	Complies
Patchouli Alcohol:	≥ 30%	Complies

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CERTIFICATE OF ANALYSIS

Product: Patchouli Dark Essential Oil
Lot No: 11109A351, 11109B351, 11109C351
Best Before: November, 2020

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:	Brown to dark brown liquid.	Complies
Odor:	Characteristic woody earthy, camphorated medicinal odor.	Complies
Solubility:	Soluble in 1:10 (V/V) dilution in 90 % dilution.	Complies
Specific Gravity:	0.950 - 0.975 @ 20°C	0.9550
Refractive Index:	1.5070 - 1.5150 @ 20°C	1.5087
Acid Value:	< 8	Complies
Ester Value:	< 20	Complies
Patchouli Alcohol:	≥ 30%	Complies

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