

CERTIFICATE OF ANALYSIS

Product: Lemongrass Essential Oil

Lot No.: 11080A10719

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:	Pale yellow to dark golden yellow liquid.	Complies
Odor:	Characteristic citral odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.8850 to 0.9040 @ 25°C	0.8925
Optical Rotation:	-3.0° to +2.0° @ 25°C	-2.01°
Refractive Index:	1.4790 to 1.4890 @ 25°C	1.4836
Total Citral (GC.):	65 to 75 %	70.94

Disclaimer & Caution

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CERTIFICATE OF ANALYSIS

Product: Lemongrass Essential Oil

Lot No.: 11080-A52

Best Before: December, 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:	Pale yellow to dark golden yellow liquid.	Complies
Odor:	Characteristic citral odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.8850 to 0.9040 @ 25°C	0.8933
Optical Rotation:	-3.0° to +2.0° @ 25°C	-1.74°
Refractive Index:	1.4790 to 1.4890 @ 25°C	1.4834
Total Citral (GC.):	65 to 75 %	72.92

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CERTIFICATE OF ANALYSIS

Product: Lemongrass Essential Oil

Lot No.: 11080-A51

Best Before: September, 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:	Pale yellow to dark golden yellow liquid.	Complies
Odor:	Characteristic citral odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.854 to 0.902 @ 20°C	0.897
Optical Rotation:	-5.0° to +1.0° @ 20°C	-2.1°
Refractive Index:	1.475 to 1.492 @ 20°C	1.484
Total Citral (GC.):	68 to 85 %	72.9

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CERTIFICATE OF ANALYSIS

Product: Lemongrass Essential Oil

Lot No.: 11080-A50

Best Before: September, 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:	Pale yellow to pale green liquid.	Complies
Odor:	Characteristic citral odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.8850 to 0.9040 @ 25°C	0.8929
Optical Rotation:	-3.0° to +2.0° @ 25°C	-1.72°
Refractive Index:	1.4790 to 1.4890 @ 25°C	1.4857
Total Citral (GC.):	65 to 75 %	70.47

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CERTIFICATE OF ANALYSIS

Product: Lemongrass Essential Oil

Lot No.: 11080-A49

Best Before: August, 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:	Pale yellow to pale green liquid.	Complies
Odor:	Characteristic citral odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.8850 to 0.9040 @ 25°C	0.8929
Optical Rotation:	-3.0° to +2.0° @ 25°C	-1.72°
Refractive Index:	1.4790 to 1.4890 @ 25°C	1.4857
Total Citral (GC.):	65 to 75 %	70.47

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CERTIFICATE OF ANALYSIS

Product: Lemongrass Essential Oil

Lot No.: 11080-A48

Best Before: August, 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:	Pale yellow to pale green liquid.	Complies
Odor:	Characteristic citral odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.8850 to 0.9040 @ 25°C	0.8933
Optical Rotation:	-3.0° to +2.0° @ 25°C	-1.56°
Refractive Index:	1.4790 to 1.4890 @ 25°C	1.4836
Total Citral (GC.):	65 to 75 %	72.62

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CERTIFICATE OF ANALYSIS

Product: Lemongrass Essential Oil  
Lot No.: 11080-A47,B47,C47,D47,E47,F47  
Best Before: May, 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:	Pale yellow to pale green liquid.	Complies
Odor:	Characteristic citral odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.8850 to 0.9040 @ 25°C	0.8918
Optical Rotation:	-3.0° to +2.0° @ 25°C	-1.84°
Refractive Index:	1.4790 to 1.4890 @ 25°C	1.4835
Total Citral (GC.):	65 to 75 %	68.0

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CERTIFICATE OF ANALYSIS

Product: Lemongrass Essential Oil

Lot No.: 11080-A46

Best Before: January, 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:	Pale yellow to pale green liquid.	Complies
Odor:	Characteristic citral odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.8900 to 0.9040 @ 25°C	0.8933
Optical Rotation:	-5.0° to +1.0° @ 25°C	-1.88°
Refractive Index:	1.480 to 1.4890 @ 25°C	1.4819
Total Citral (GC.):	> 70 %	75.3

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CERTIFICATE OF ANALYSIS

Product: Lemongrass Essential Oil  
Lot No.: 11080-A45,B45,C45,D45,E45,F45,G45,H45,I45,J45,K45,L45  
Best Before: December, 2019  
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:	Pale yellow to pale green liquid.	Complies
Odor:	Characteristic citral odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.8900 to 0.9040 @ 25°C	0.8928
Optical Rotation:	-5.0° to +1.0° @ 25°C	-1.72°
Refractive Index:	1.480 to 1.4890 @ 25°C	1.4822
Total Citral (GC.):	> 70 %	75.3

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## CERTIFICATE OF ANALYSIS

**Product:** Lemongrass Essential Oil  
**Lot No.:** 11080-A44,B44,C44,D44,E44,F44,G44,H44,I44,J44,K44,L44  
**Best Before:** September, 2019  
 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:	Pale yellow to pale green liquid.	Complies
Odor:	Characteristic citral odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.8900 to 0.9040 @ 25°C	0.8929
Optical Rotation:	-5.0° to +1.0° @ 25°C	-1.63°
Refractive Index:	1.480 to 1.4890 @ 25°C	1.4818
Total Citral (GC.):	> 70 %	75.6

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