



## Certificate of Analysis

<b>Product</b>	LITSEA CUBEBA ESSENTIAL OIL
<b>Lot #</b>	01005762
<b>Manufacture Date</b>	01/2022
<b>Shelf Life</b>	1 year

Properties	Specifications	Results
Appearance	Liquid	Conform
Color	Yellow	Conform
Odor	Characteristic	Conform
Specific Gravity 20 °C	0.880 – 0.892	0.8902
Refractive Index 20 °C	1.4800 – 1.4900	1.4847
Optical Rotation	3 – 12	9.54
Flash Point °F (closed cup)	Minimum 160	Conform

This Certificate of Analysis was created by the manufacturer/distiller of the product. This information is believed to be up-to-date and correct; however, it is provided without any warranty. The customer is responsible for examining the product upon arrival and determining the safe use of the product in order to be in compliance with all applicable laws and regulations. The product must be stored in a cool, dry place away from direct light and heat, tightly sealed and away from children, the mentally infirm and pets. Essential oils shipped in amber plastic pharmaceutical grade bottles must be transferred to amber glass upon arrival, those shipped in aluminum bottles may be stored in such bottles for a minimum of 6 months, tightly sealed. All responsibility (including damage or injury) for the use of this and any other product purchased from Camden-Grey Essential Oils, Inc. rests with the purchaser/user. Camden-Grey's liability is limited to the paid value of this product.

## Certificate of Analysis

<b>Product</b>	LITSEA CUBEBA ESSENTIAL OIL
<b>Lot #</b>	100290
<b>Manufacture Date</b>	03/2021
<b>Shelf Life</b>	3 years

Properties	Specifications	Results
Appearance	Liquid	Conform
Color	Yellow	Conform
Odor	Characteristic	Conform
Specific Gravity 20 °C	0.880 – 0.892	0.887
Refractive Index 20 °C	1.480 – 1.490	1.483
Optical Rotation	3 – 12	9.4
Alpha pinene	≤ 1.5	1.3
Citral	Neral +Geranial	68
Citronnellal	≤ 1.5	1.3
Geranial	38 – 45	38.2
Geraniol	0.5 – 1.5	1.2
Limonene	9 – 15	12.6
Linalol	1.5 – 3	1.5
Methyl heptenone	1.5 – 3	1.1
Nerol	0.2 – 1.2	0.5
Neral	25 – 33	29.8
GC Analysis		Conform

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## Certificate of Analysis

<b>Product</b>	LITSEA CUBEBA ESSENTIAL OIL
<b>Lot #</b>	2115046
<b>Shelf Life</b>	3 years

Properties	Specifications	Results
Appearance	Liquid	Conform
Color	Yellow	Conform
Odor	Characteristic	Conform
Specific Gravity 20 °C	0.88 – 0.892	0.887
Refractive Index 20 °C	1.480 – 1.490	1.483
Optical Rotation	3 – 12	9.4
Alpha pinene	≤ 1.5	1.3
Citral	Neral +Geranial	68
Citronnellal	≤ 1.5	1.3
Geranial	38 – 45	38.2
Geraniol	0.5 – 1.5	1.2
Limonene	9 – 15	12.6
Linalol	1.5 – 3	1.5
Methyl Heptenone	1.5 – 3	1.1
Nerol	0.2 – 1.2	0.5
Neral	25 – 33	29.8
GC Analysis		Conform

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## Certificate of Analysis

**Product** LITSEA CUBEBA ESSENTIAL OIL  
**Lot #** 2021412  
**Shelf Life** 3 years

Properties	Specifications	Results
Appearance	Liquid	Conform
Specific Gravity 20 °C		0.884
Refractive Index 20 °C		1.482
Optical Rotation		+10.4°

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## Certificate of Analysis

<b>Product</b>	LITSEA CUBEBA ESSENTIAL OIL
<b>Lot #</b>	1912041
<b>Shelf Life</b>	3 years

Properties	Specifications	Results
Appearance	Liquid	Conform
Color	Yellow	Conform
Odor	Characteristic	Conform
Specific Gravity 20 °C	0.88 – 0.892	0.883
Refractive Index 20 °C	1.480 – 1.490	1.483
Optical Rotation	3 – 12	10.3
Alpha pinene	≤ 1.5	1.4
Citral	Neral +Geranial	66.1
Citronnellal	≤ 1.5	0.9
Geranial	38 – 45	38.2
Geraniol	0.5 – 1.5	1
Limonene	9 – 15	13.4
Linalol	1.5 – 3	2
Nerol	0.2 – 1.2	0.4
Neral	25 – 33	27.9

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