



Certificate of Analysis

Product	FIR NEEDLE ESSENTIAL OIL
Lot #	MD97781
Date of MFG	21-SEP-21
Shelf Life	2 years

Properties	Specifications	Results
Optical Rotation	$\geq -45 \leq -33$	-35.52
Refractive Index @20C	$\geq 1.4680 \leq 1.4730$	1.4700
Specific Gravity @20 C	$\geq 0.9010 \leq 0.9150$	0.9047
Specific Gravity @25 C	$\geq 0.8980 \leq 0.9120$	0.9017
Total Esters	$\geq 44 \leq 32$	32
Appearance		Conform
Odor		Conform to standard
Taste		Conform
Flash Point		105/41

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

Product	FIR NEEDLE ESSENTIAL OIL
Lot #	R-107770
Shelf Life	2 years

Properties	Specifications	Results
Color	Colorless liquid	Conform
Analysis by GC		Conform to standard
Odor Description	Characteristic of pine needle oil	Conform
Refractive Index 20		1.4690
Specific Gravity 25		0.9000

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Certificate of Analysis

Product FIR NEEDLE ESSENTIAL OIL
Lot # 01004482
Shelf Life 2 years

Properties	Specifications	Results
Appearance	Liquid	Conforms
Odor	Characteristic	Conforms to Standard
Color	Colorless	Conforms
Refractive Index 20° C	1.4680 – 1.4740	1.4694
Specific Gravity 20/20° C	0.900 – 0.9200	0.9043
Flash Point °F (Closed Cup)	109 Minimum	Conforms

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Certificate of Analysis

Product	FIR NEEDLE ESSENTIAL OIL
Lot #	11835719
Shelf Life	1.5 years

Properties	Specifications	Results
Appearance	Liquid	Conforms
Odor	Characteristic	Conforms to Standard
Color	Colorless	Conforms
Refractive Index 20° C	1.4680 – 1.4740	1.4697
Specific Gravity 20/20° C	0.900 – 0.9200	0.9027
Flash Point °F (Closed Cup)	109 Minimum	Conforms

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