



Certificate of Analysis

Product GINGER ESSENTIAL OIL
Lot # 2122048
Shelf Life 3 years

Properties	Specifications	Results
Appearance	Liquid	Conform
Odor	Characteristic	Conform
Specific Gravity 20 °C		0.876
Refractive Index 20 °C		1.489
Optical Rotation		-35.5

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	GINGER ESSENTIAL OIL
Lot #	2006034
Shelf Life	3 years

Properties	Specifications	Results
Appearance	Limpid liquid	Conform
Color	Pale Yellow	Conform
Odor	Characteristic	Conform
Specific Gravity 20°C	0.873 – 0.885	0.876
Refractive Index 20°C	1.4866 – 1.495	1.487
Optical Rotation	-47 – -26	-32.3
Alpha Farnesene	3.5 – 5	3.8
Alpha Zingiberene	32 – 40	32
Beta Bisabolene	5 – 7	6.3
Beta Sesquiphellandrene	11 – 15	11.9
Camphene	4.5 – 9	7
Limonene	0.9 – 1.7	1.3

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	GINGER ESSENTIAL OIL
Lot #	MD80715
Shelf Life	2 years

Properties	Specifications	Results
Appearance	Liquid	Conforms to standard
Aroma	Characteristic	Conforms to standard
Color		Conforms to standard
Optical Rotation	$\geq -47 \leq -28$	-39.48
Refractive Index @ 20C	$\geq 1.4880 \leq 1.4940$	1.4910
Specific Gravity @ 20C	$\geq 0.8730 \leq 0.8850$	0.8767
Specific Gravity @ 25C	$\geq 0.8700 \leq 0.8820$	0.8737
Flash Point		185 °F / 85 °C

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.