

Certificate of Analysis

Product	ALMOND, SWEET, OIL
LOT #	L-31072019-IBC
Shelf Life	2.5 years

Properties	Specifications	Results
Acid value	< 0.5	0.07
Unsaponifiable matter	<0.9	0.55
Relative Density at 20°C	0.910 – 0.915	0.911
Refractive Index 20°C	1.467 – 1.473	1.469
Iodine Value	95 – 105	96
Absorbance UV (K270)	0.2 – 6.0	1.68
Saponification Value	190 – 200	195
Peroxide Value	< 3	0.78
Absorbance 420 nm	0.1 – 0.25	0.13
Absorbance 453 nm	0.02 – 0.10	0.05
Lovibond Color		
Red Units	< 4	1.6
Yellow Units	< 50	16
Fatty Acid Composition		
Palmitic Acid (C16:0)	4.0 – 9.0	6.41
Palmitoleic Acid (C16:1)	< 0.8	0.48
Stearic Acid (C18:0)	< 3	2.68
Oleic Acid (C18:1)	62.0 – 76.0	67.06
Linoleic Acid (C18:2)	20.0 – 30.0	21.66
Linolenic Acid (C18:3)	< 0.4	0.24
Others Tests		
Foreign Kernel oil	Pass	Conforms
Cotton seed oil	Pass	Conforms
Sesame seed oil	Pass	Conforms
Mineral oil and foreign fatty oils	Pass	Conforms
Foreign oils	Pass	Conforms
Residual solvents	Meets	Conforms
Microbiological	Total plate count max. 100 cfu/g. Absence of pathogen microorganism in 25g.	Negative for pathogens: Yeast/Mold, Pseudomonads, Staphylococcus, Salmonella, E.Coli and Listeria

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	ALMOND, SWEET, OIL
Lot #	03303/20
Shelf Life	3 years

Properties	Specifications	Results
FFA (oleic acid)	Max 0.5	0.1
Peroxide Value	Max 5.0	0.5
Specific Gravity 25 °C	0.910 – 0.915	0.912
Saponification Value	190 – 200	192
Fatty Acid Profile (area %)		
C16:0 Palmitic	3.0 – 9.0	5.4
C16:1 Palmitoleic	Max 2.0	0.1
C18:0 Stearic C	Max 4.0	3.0
C18:1 Oleic	60.0 – 86.0	64.8
C18:2 Linoleic	20.0 – 30.0	24.9
C18:3 Linolenic	Max 2.0	0.1

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Certificate of Analysis

Product	ALMOND, SWEET, OIL
Lot #	1592/19
Shelf Life	3 years

Properties	Specifications	Results
FFA (oleic acid)	Max 0.5	0.1
Peroxide Value	Max 5.0	0.7
Specific Gravity 25 °C	0.910 – 0.915	0.911
Saponification Value	190 – 200	191
Fatty Acid Profile (area %)		
C16:0 Palmitic	3.0 – 9.0	5.2
C16:1 Palmitoleic	Max 2.0	0.1
C18:0 Stearic C	Max 4.0	3.0
C18:1 Oleic	60.0 – 86.0	65.4
C18:2 Linoleic	20.0 – 30.0	24.6
C18:3 Linolenic	Max 2.0	0.1

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