

Certificate of Analysis

Product	RICE BRAN OIL
Lot #	190222
Manufacturing Date	02/2022
Shelf Life	3 years

Properties	Specifications	Results
Free Fatty Acids (as oleic)	0.5 Max	0.07
Peroxide value	10.0 Max	0.25
Refractive Index	1.460 – 1.473	1.4642
Iodine value	90 – 115	99.75
Color Lovibond 5 ¼	5 R/50Y Max	3 R/24Y
Fatty Acid Composition		
C16:0	12 – 23	19.41
C18:0	0.5 - 4.0	1.93
C18:1	35 – 50	42.22
C18:2	21 - 45	32.45
C18:3	2.9 Max	1.09
Oryzanol		3000

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	RICE BRAN OIL
Lot #	020821
Date of Production	08/2021
Shelf Life	2 years

Properties	Specifications	Results
Free Fatty Acids (as oleic)	0.0 - 0.5	0.06
Peroxide Value	0.0 – 10.0	0.55
Refractive Index 40°C	1.460 – 1.476	1.4656
Iodine Value	90 – 115	98.02
Color Lovibond 5 ¼"	5R/50Y max	3.0 R/30 Y
Fatty Acid Composition		
C16:0	12 – 23	19.36
C18:0	0.5 – 4.0	2.02
C18:1	35 – 50	41.98
C18:2	21 – 45	32.41
C18:3	0.0 – 2.9	1.14
Oryzanol		2700 ppm

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Certificate of Analysis

Product	RICE BRAN OIL
Lot #	13905/20
Shelf Life	3 years

Properties	Specifications	Results
Free Fatty Acids (as oleic)	0.5 Max	0.1
Peroxide value	10.0 Max	0.9
Refractive Index	1.460 – 1.473	1.469
Iodine value	90 – 115	106
Color Lovibond 5 ¼	5 R/50Y Max	1.9 R/28Y
Fatty Acid Composition		
C16:0	12 – 23	16.7
C18:0	0.5 - 4.0	2.3
C18:1	35 – 50	43.8
C18:2	21 - 45	34.6
C18:3	2.9 Max	1.3
Oryzanol		447

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Certificate of Analysis

Product	RICE BRAN OIL
Lot #	27215 A11 RBDW 200 19
Shelf Life	2 years

Properties	Results
Appearance	Clear & Bright
Color Lovibond 5 ¼" R	3.0
Color Lovibond 5 ¼" Y	32
Free Fatty Acids (as oleic)	0.06
Peroxide Value at time of packaging	2.3
Moisture and Matter Volatile	0.01
Refractive Index 40°C	1.4710
Iodine Value	100.41
Saponification Value	189.23
Specific Gravity 20°C	0.919
Unsaponifiable Matter	0.45
Acid Value	0.10
Fatty Acid Composition	
C16:0	13.61
C18:0	2.22
C18:1	49.22
C18:2	32.93
C18:3	0.62
C20:0	0.38

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Certificate of Analysis

Product	RICE BRAN OIL
Lot #	1121108
Shelf Life	2 years

Properties	Specifications	Results
Flavor/Aroma	Typical	Complies
Color (Lovibond) Red	0 – 5.0	3.2
Free Fatty Acid	0 – 0.85	0.050
Peroxide Value (MEQ/KG)	0 – 5.0	2.50
Iodine Value (CG/G)	99 – 108	100.41
Moisture Content	0 – 1.0	0.010
Acid Value MG KOH/G	0 – 1.0	0.10
Refractive Index	1.4660 – 1.4790	1.4716
Saponification Value (MG/G)	110 – 200	189.23

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