

## Certificate of Analysis

<b>Product</b>	RICE BRAN OIL
<b>Lot #</b>	062203011
<b>Date of Production</b>	03/2022
<b>Shelf Life</b>	3 years

Properties	Specifications	Results
Free Fatty Acids (as oleic)	0.0 - 0.5	0.005
Peroxide Value	0.0 – 10.0	0.30
Refractive Index 40°C	1.460 – 1.476	1.472
Iodine Value	90 – 115	98.8
Color Lovibond 5 ¼"	5R/50Y max	2.3 R/30 Y
<b>Fatty Acid Composition</b>		
C16:0	12 – 23	17.1
C18:0	0.5 – 4.0	1.5
C18:1	35 – 50	39.6
C18:2	21 – 45	34.8
C18:3	0.0 – 2.9	0.8
Oryzanol		1700 ppm

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## Certificate of Analysis

<b>Product</b>	RICE BRAN OIL
<b>Lot #</b>	190222
<b>Manufacturing Date</b>	02/2022
<b>Shelf Life</b>	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
<b>Fatty Acid Composition</b>		
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

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## Certificate of Analysis

<b>Product</b>	RICE BRAN OIL
<b>Lot #</b>	020821
<b>Date of Production</b>	08/2021
<b>Shelf Life</b>	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
<b>Fatty Acid Composition</b>		
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

<b>Product</b>	RICE BRAN OIL
<b>Lot #</b>	13905/20
<b>Shelf Life</b>	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
<b>Fatty Acid Composition</b>		
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

<b>Product</b>	RICE BRAN OIL
<b>Lot #</b>	27215 A11 RBDW 200 19
<b>Shelf Life</b>	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
<b>Fatty Acid Composition</b>	
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

<b>Product</b>	RICE BRAN OIL
<b>Lot #</b>	1121108
<b>Shelf Life</b>	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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