

## CERTIFICATE OF ANALYSIS

Product: Safflower Carrier Oil  
 Lot #: 15025A10521  
 Best Before: April, 2023

Store in an air tight container; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Pale yellow to yellow liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Insoluble in water.	Complies
Iodine Value:	80 - 100 cg I/g	91.01
Peroxide Value:	< 2.0 meq/kg	0.59
Free Fatty Acid:	< 0.10 %	0.04
Saponification Value:	186 - 194	191.33
Specific Gravity:	0.913 - 0.919 @ 20°C	0.919
Refractive Index:	1.460 - 1.464 @ 40°C	1.464

### FATTY ACID PROFILE

Palmitic acid (C:16:0):	4.0 - 10 %	5.01
Stearic acid (C:18:0):	1 - 4 %	2.53
Cis-oleic acid (C:18:1):	> 72 %	77.30
Cis-linoleic acid (C:18:2):	7.0 - 20 %	13.42
Alpha-linolenic (C:18:3):	< 1.0	0.33

#### Disclaimer & Caution

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## CERTIFICATE OF ANALYSIS

Product: Safflower Carrier Oil  
 Lot #: 15025B11220  
 Best Before: December, 2022  
 Store in an air tight container; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Pale yellow to yellow liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Insoluble in water.	Complies
Iodine Value:	80 - 100 cg I/g	89.32
Peroxide Value:	< 2.0 meq/kg	0.55
Free Fatty Acid:	< 0.10 %	0.04
Saponification Value:	186 - 194	191.57
Specific Gravity:	0.913 - 0.919 @ 20°C	0.919
Refractive Index:	1.460 - 1.464 @ 40°C	1.464

### FATTY ACID PROFILE

Palmitic acid (C:16:0):	4.0 - 10 %	5.19
Stearic acid (C:18:0):	1 - 4 %	2.88
Cis-oleic acid (C:18:1):	> 72 %	76.54
Cis-linoleic acid (C:18:2):	7.0 - 20 %	13.16
Alpha-linolenic (C:18:3):	< 1.0	0.13

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## CERTIFICATE OF ANALYSIS

Product: Safflower Carrier Oil  
 Lot #: 15025B111191  
 Best Before: November, 2022  
 Store in an air tight container; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Pale yellow to yellow liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Insoluble in water.	Complies
Iodine Value:	80 - 100 cg l/g	Complies
Peroxide Value:	< 2.0 meq/kg	Complies
Free Fatty Acid:	< 0.10 %	Complies
Saponification Value:	186 - 194	Complies
Specific Gravity:	0.913 - 0.919 @ 20°C	Complies
Refractive Index:	1.460 - 1.464 @ 40°C	Complies

### FATTY ACID PROFILE

Palmitic acid (C:16:0):	4.0 - 10 %	Complies
Stearic acid (C:18:0):	1 - 4 %	Complies
Cis-oleic acid (C:18:1):	> 72 %	Complies
Cis-linoleic acid (C:18:2):	7.0 - 20 %	Complies
Alpha-linolenic (C:18:3):	< 1.0	Complies

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## CERTIFICATE OF ANALYSIS

Product: Safflower Carrier Oil  
 Lot #: 15025A10820  
 Best Before: August, 2022  
 Store in an air tight container; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Pale yellow to yellow liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Insoluble in water.	Complies
Iodine Value:	80 - 100 cg l/g	88.87
Peroxide Value:	< 2.0 meq/kg	0.55
Free Fatty Acid:	< 0.10 %	0.04
Saponification Value:	186 - 194	191.47
Specific Gravity:	0.913 - 0.919 @ 20°C	0.919
Refractive Index:	1.460 - 1.464 @ 40°C	1.464

### FATTY ACID PROFILE

Palmitic acid (C:16:0):	4.0 - 10 %	5.09
Stearic acid (C:18:0):	1 - 4 %	2.85
Cis-oleic acid (C:18:1):	> 72 %	77.63
Cis-linoleic acid (C:18:2):	7.0 - 20 %	12.42
Alpha-linolenic (C:18:3):	< 1.0	0.10

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## CERTIFICATE OF ANALYSIS

Product: Safflower Carrier Oil  
 Lot #: 15025A522  
 Best Before: June, 2022

Store in an air tight container; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Pale yellow to yellow liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Insoluble in water.	Complies
Iodine Value:	80 – 100 cg l/g	Complies
Peroxide Value:	< 2.0 meq/kg	Complies
Free Fatty Acid:	< 0.10 %	Complies
Saponification Value:	186 – 194	Complies
Specific Gravity:	0.913 – 0.919 @ 20°C	Complies
Refractive Index:	1.460 – 1.464 @ 40°C	Complies

### FATTY ACID PROFILE

Palmitic acid (C:16:0):	4.0 – 6 %	Complies
Stearic acid (C:18:0):	1.5 – 3.5 %	Complies
Cis-oleic acid (C:18:1):	70 – 84 %	Complies
Cis-linoleic acid (C:18:2):	9.0 – 20 %	Complies
Alpha-linolenic (C:18:3):	1.2 % Max.	Complies

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## CERTIFICATE OF ANALYSIS

Product: Safflower Carrier Oil  
 Lot #: 15025B11119  
 Best Before: December, 2021  
 Store in an air tight container; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Pale yellow to yellow liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Insoluble in water.	Complies
Iodine Value:	80 - 100 cg I/g	92.2
Peroxide Value:	< 2.0 meq/kg	1.9
Free Fatty Acid:	< 0.10 %	0.05
Saponification Value:	186 - 194	191.16
Specific Gravity:	0.913 - 0.919 @ 20°C	0.919
Refractive Index:	1.460 - 1.464 @ 40°C	1.464

### FATTY ACID PROFILE

Palmitic acid (C:16:0):	4.0 - 10%	5.35
Stearic acid (C:18:0):	1 - 4%	2.60
Cis-oleic acid (C:18:1):	> 72 %	74.05
Cis-linoleic acid (C:18:2):	7.0 - 20 %	15.91
Alpha-linolenic (C:18:3):	< 1.0	0.10

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## CERTIFICATE OF ANALYSIS

Product: Safflower Carrier Oil  
 Lot #: 15025A10819  
 Best Before: August, 2021  
 Store in an air tight container; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Pale yellow to yellow liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Insoluble in water.	Complies
Iodine Value:	80 - 100 cg I/g	92.4
Peroxide Value:	< 2.0 meq/kg	1.96
Free Fatty Acid:	< 0.10 %	0.05
Saponification Value:	186 - 194	191.03
Specific Gravity:	0.913 - 0.919 @ 20°C	0.919
Refractive Index:	1.460 - 1.464 @ 40°C	1.464

### FATTY ACID PROFILE

Palmitic acid (C:16:0):	4.0 - 6 %	5.19
Stearic acid (C:18:0):	1.5 - 3.5 %	2.78
Cis-oleic acid (C:18:1):	70 - 84 %	73.05
Cis-linoleic acid (C:18:2):	9.0 - 20 %	15.89
Alpha-linolenic (C:18:3):	1.2 % Max.	0.13

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## CERTIFICATE OF ANALYSIS

Product: Safflower Carrier Oil  
 Lot #: 15025A521, 15025B521, 15025C521  
 Best Before: June, 2021

Store in an air tight container; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Pale yellow to yellow liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Insoluble in water.	Complies
Iodine Value:	80 - 100 cg I/g	Complies
Peroxide Value:	< 2.0 meq/kg	Complies
Free Fatty Acid:	< 0.10 %	Complies
Saponification Value:	186 - 194	Complies
Specific Gravity:	0.913 - 0.919 @ 20°C	Complies
Refractive Index:	1.460 - 1.464 @ 40°C	Complies

### FATTY ACID PROFILE

Palmitic acid (C:16:0):	4.0 - 6 %	Complies
Stearic acid (C:18:0):	1.5 - 3.5 %	Complies
Cis-oleic acid (C:18:1):	70 - 84 %	Complies
Cis-linoleic acid (C:18:2):	9.0 - 20 %	Complies
Alpha-linolenic (C:18:3):	1.2 % Max.	Complies

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