

CERTIFICATE OF ANALYSIS

Product: Perilla Seed Organic Carrier Oil

Lot No.: 51011-A17

Best Before: October, 2020

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:	Light yellow, clear liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.9120 - 0.9400 @25°C	0.9220
Moisture & Volatiles:	≤ 0.1 %	0.05
Acid Value:	≤ 2.0 mg KOH/g	0.34
Peroxide Value:	≤ 10 meq O <sub>2</sub> / kg	0.74
Unsaponification:	≤ 2.5 %	1.40
Saponification:	184 - 210 mg/g	190.15
Iodine value:	175 - 208 gI/100g	200.1
Refractive Index:	1.4260 - 1.4900 @25°C	1.4817
Linoleic Acid:	12 - 20 %	15.41
Oleic Acid:	10 - 18 %	14.00
Stearic Acid:	1 - 4 %	1.83
Palmitic Acid:	4 - 10 %	6.28

**Disclaimer & Caution:**

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CERTIFICATE OF ANALYSIS

Product: Perilla Seed Organic Carrier Oil

Lot No.: 51011-A16

Best Before: May, 2020

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:	Light yellow, clear liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.9120 - 0.9400 @25°C	0.9210
Moisture & Volatiles:	≤ 0.1 %	0.06
Acid Value:	≤ 2.0 mg KOH/g	0.30
Peroxide Value:	≤ 10 meq O <sub>2</sub> / kg	0.73
Unsaponification:	≤ 2.5 %	1.37
Saponification:	184 - 210 mg/g	189.37
Iodine value:	175 - 208 gI/100g	199.11
Refractive Index:	1.4260 - 1.4900 @25°C	1.4815
Linoleic Acid:	12 - 20 %	15.41
Oleic Acid:	10 - 18 %	14.00
Stearic Acid:	1 - 4 %	1.83
Palmitic Acid:	4 - 10 %	6.28

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CERTIFICATE OF ANALYSIS

Product: Perilla Seed Organic Carrier Oil

Lot No.: 51011-A15

Best Before: January, 2020

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:	Light yellow, clear liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.9120 - 0.9400 @25°C	0.9279
Moisture & Volatiles:	≤ 0.1 %	0.02
Acid Value:	≤ 2.0 mg KOH/g	0.36
Peroxide Value:	≤ 10 meq O <sub>2</sub> / kg	1.05
Unsaponification:	≤ 2.5 %	1.20
Saponification:	184 - 210 mg/g	192.10
Iodine value:	175 - 208 gI/100g	189.80
Refractive Index:	1.4260 - 1.4900 @25°C	1.4846
Linoleic Acid:	12 - 20 %	17.51
Oleic Acid:	10 - 18 %	12.88
Stearic Acid:	1 - 4 %	1.58
Palmitic Acid:	4 - 10 %	5.48

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CERTIFICATE OF ANALYSIS

Product: Perilla Seed Organic Carrier Oil

Lot No.: 51011-A14-1

Best Before: January, 2020

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:	Light yellow, clear liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.9120 - 0.9300 @25°C	Complies
Moisture & Volatiles:	≤ 0.1 %	Complies
Acid Value:	≤ 2.0 mg KOH/g	Complies
Peroxide Value:	≤ 10 meq O <sub>2</sub> / kg	Complies
Unsaponification:	≤ 2.5 %	Complies
Saponification:	135 - 195 mg/g	Complies
Iodine value:	175 - 208 gI/100g	Complies
Refractive Index:	1.4600 - 1.4850 @25°C	1.4824
Linoleic Acid:	12 - 20 %	Complies
Oleic Acid:	10 - 18 %	Complies
Stearic Acid:	1 - 4 %	Complies
Palmitic Acid:	4 - 10 %	Complies

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CERTIFICATE OF ANALYSIS

Product: Perilla Seed Organic Carrier Oil

Lot No.: 51011-A13

Best Before: June, 2019

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:	Light yellow, clear liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.9120 - 0.9400 @25°C	0.9279
Moisture & Volatiles:	≤ 0.1 %	0.02
Acid Value:	≤ 2.0 mg KOH/g	0.43
Peroxide Value:	≤ 10 meq O <sub>2</sub> / kg	3.79
Unsaponification:	≤ 2.5 %	1.20
Saponification:	184 - 210 mg/g	192.12
Iodine value:	175 - 208 gI/100g	189.79
Refractive Index:	1.4260 - 1.4900 @25°C	1.4846
Linoleic Acid:	12 - 20 %	18.88
Oleic Acid:	10 - 18 %	12.04
Stearic Acid:	1 - 4 %	1.43
Palmitic Acid:	4 - 10 %	5.96

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