

## CERTIFICATE OF ANALYSIS

Product: Borage Carrier Oil

Lot #: 15004 A103191

Best Before: March, 2022

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Pale yellow to golden yellow liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Insoluble in water.	Complies
Relative Density:	0.9100 – 0.9280 @ 25°C	Complies
Refractive Index:	1.470 – 1.500 @ 25°C	Complies
Acid Value:	< 1 mg KOH/g	Complies
Peroxide Value:	< 10 meq O <sub>2</sub> /kg	Complies
Unsaponifiables:	< 2.5 %	Complies
Palmitic acid C16:0	9.0 – 12.0 %	Complies
Stearic acid, C18:0	2.0 – 6.0 %	Complies
Oleic acid, C18:1	14.0 – 22.0 %	Complies
Linoleic acid, C18:2	30.0 – 45.0 %	Complies
γ-Linolenic acid, C18:3	> 20.0 %	Complies

### Disclaimer & Caution

Please refer to all relevant technical information specific to the product, prior to use. The information contained in this document is obtained from current and reliable sources. New Directions Aromatics Inc. provides the information contained herein, but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. The user of the product is solely responsible for compliance with all laws and regulations applying to the use of the products, including intellectual property rights of third parties. As the ordinary or otherwise use(s) of this product is outside the control of New Directions Aromatics Inc., no representation or warranty, expressed or implied, is made as to the effect(s) of such use(s), (including damage or injury), or the results obtained. The liability of New Directions Aromatics Inc. is limited to the value of the goods and does not include any consequential loss. New Directions Aromatics Inc. shall not be liable for any errors or delays in the content, or for any actions taken in reliance thereon. New Directions Aromatics Inc. shall not be responsible for any damages resulting from use of or reliance upon this information. In the event of any dispute, the Customer hereby agrees that Jurisdiction is limited to the province of Ontario.

## CERTIFICATE OF ANALYSIS

Product: Borage Carrier Oil

Lot #: 15004 A222

Best Before: December, 2021

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Pale yellow to golden yellow liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Insoluble in water.	Complies
Relative Density:	0.9100 – 0.9280 @ 25°C	Complies
Refractive Index:	1.470 – 1.500 @ 25°C	Complies
Acid Value:	< 1 mg KOH/g	Complies
Peroxide Value:	< 10 meq O <sub>2</sub> /kg	Complies
Unsaponifiables:	< 2.5 %	Complies
Palmitic acid C16:0	9.0 – 12.0 %	Complies
Stearic acid, C18:0	2.0 – 6.0 %	Complies
Oleic acid, C18:1	14.0 – 22.0 %	Complies
Linoleic acid, C18:2	30.0 – 45.0 %	Complies
γ-Linolenic acid, C18:3	> 20.0 %	Complies

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## CERTIFICATE OF ANALYSIS

Product: Borage Carrier Oil  
 Lot #: 15004 A213  
 Best Before: November, 2021  
 Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Pale yellow to golden yellow liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Insoluble in water.	Complies
Relative Density:	0.9100 – 0.9280 @ 25°C	Complies
Refractive Index:	1.470 – 1.500 @ 25°C	Complies
Acid Value:	< 1 mg KOH/g	Complies
Peroxide Value:	< 10 meq O <sub>2</sub> /kg	Complies
Unsaponifiables:	< 2.5 %	Complies
Palmitic acid C16:0	9.0 – 12.0 %	Complies
Stearic acid, C18:0	2.0 – 6.0 %	Complies
Oleic acid, C18:1	14.0 – 22.0 %	Complies
Linoleic acid, C18:2	30.0 – 45.0 %	Complies
γ-Linolenic acid, C18:3	> 20.0 %	Complies

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## CERTIFICATE OF ANALYSIS

Product: Borage Carrier Oil

Lot #: 15004A10319

Best Before: March, 2021

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Pale yellow to golden yellow liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Insoluble in water.	Complies
Relative Density:	0.9100 - 0.9280 @ 25°C	0.9220
Refractive Index:	1.470 - 1.500 @ 25°C	1.4737
Acid Value:	≤ 1 mg KOH/g	0.41
Peroxide Value:	≤ 10 meq O <sub>2</sub> /kg	0.62
Unsaponifiables:	≤ 2.5 %	0.98
Palmitic acid C16:0	9.0 - 12.0 %	10.09
Stearic acid, C18:0	2.0 - 6.0 %	5.14
Oleic acid, C18:1	14.0 - 22.0 %	18.61
Linoleic acid, C18:2	30.0 - 45.0 %	37.77
γ-Linolenic acid, C18:3	≥ 20.0 %	Complies

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## CERTIFICATE OF ANALYSIS

Product: Borage Carrier Oil  
 Lot #: 15004A221  
 Best Before: March, 2021

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Pale yellow to golden yellow liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Insoluble in water.	Complies
Relative Density:	0.9100 – 0.9280 @ 25°C	0.9210
Refractive Index:	1.470 – 1.500 @ 25°C	1.4759
Acid Value:	< 1 mg KOH/g	Complies
Peroxide Value:	< 10 meq O <sub>2</sub> /kg	Complies
Unsaponifiables:	< 2.5 %	Complies
Palmitic acid C16:0	9.0 – 12.0 %	Complies
Stearic acid, C18:0	2.0 – 6.0 %	Complies
Oleic acid, C18:1	14.0 – 22.0 %	Complies
Linoleic acid, C18:2	30.0 – 45.0 %	Complies
γ-Linolenic acid, C18:3	> 20.0 %	Complies

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