

CERTIFICATE OF ANALYSIS

Product: Black Cumin Seed Carrier Oil - Virgin
 Lot #: 15081A10121
 Best Before: January, 2023

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Amber to deep amber liquid.	Complies
Odor:	Characteristic nutty pungent odor.	Complies
Solubility:	Insoluble in water.	Complies
Relative Density:	0.910 – 0.935 @ 20°C	0.92
Refractive Index:	1.44 – 1.50	1.4730
Free Fatty Acid:	Max. 5 (as % Oleic acid)	2.12
Acid Value:	Max. 10 (mg KOH/g)	4.22
Saponification Value:	180 – 210 (mg KOH/g)	195
C16:0, Palmitic Acid:	8 – 15 %	12.147
C18:0, Stearic Acid:	< 5 %	3.381
C18:1, Oleic Acid:	18 – 30 %	23.9
C18:2, Linoleic acid:	50 – 65 %	56.743

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: Black Cumin Seed Carrier Oil - Virgin
 Lot #: 15081B11220
 Best Before: December, 2022

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Amber to deep amber liquid.	Complies
Odor:	Characteristic nutty pungent odor.	Complies
Solubility:	Insoluble in water.	Complies
Relative Density:	0.910 - 0.935 @ 20°C	0.92
Refractive Index:	-----	1.4730
Free Fatty Acid:	Max. 5 (as % Oleic acid)	2.12
Acid Value:	Max. 10 (mg KOH/g)	4.22
Saponification Value:	180 - 210 (mg KOH/g)	195
C16:0, Palmitic Acid:	8 - 15 %	12.147
C18:0, Stearic Acid:	< 5 %	3.381
C18:1, Oleic Acid:	18 - 30 %	23.9
C18:2, Linoleic acid:	50 - 65 %	56.743

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: Black Cumin Seed Carrier Oil - Virgin

Lot #: 15081A10920

Best Before: October, 2022

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Amber to deep amber liquid.	Complies
Odor:	Characteristic nutty pungent odor.	Complies
Solubility:	Insoluble in water.	Complies
Relative Density:	0.910 - 0.935 @ 20°C	0.92
Refractive Index:	-----	1.4730
Free Fatty Acid:	Max. 5 (as % Oleic acid)	2.12
Acid Value:	Max. 10 (mg KOH/g)	4.22
Saponification Value:	180 - 210 (mg KOH/g)	195
C16:0, Palmitic Acid:	8 - 15 %	12.147
C18:0, Stearic Acid:	< 5 %	3.381
C18:1, Oleic Acid:	18 - 30 %	23.9
C18:2, Linoleic acid:	50 - 65 %	53.743

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: Black Cumin Seed Carrier Oil - Virgin
 Lot #: 15081A108191
 Best Before: August, 2022

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Amber to deep amber liquid.	Complies
Odor:	Characteristic nutty pungent odor.	Complies
Solubility:	Insoluble in water.	Complies
Relative Density:	0.910 - 0.935 @ 20°C	Complies
Refractive Index:	1.4625 - 1.4825 @ 20°C	Complies
Free Fatty Acid:	Max. 10 (as % Oleic acid)	Complies
Acid Value:	Max. 20 (mg KOH/g)	Complies
Saponification Value:	180 - 210 (mg KOH/g)	Complies
C16:0, Palmitic Acid:	8 - 15 %	Complies
C18:0, Stearic Acid:	< 5 %	Complies
C18:1, Oleic Acid:	18 - 30 %	Complies
C18:2, Linoleic acid:	50 - 65 %	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: Black Cumin Seed Carrier Oil - Virgin

Lot #: 15081B10620

Best Before: June, 2022

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Amber to deep amber liquid.	Complies
Odor:	Characteristic nutty pungent odor.	Complies
Solubility:	Insoluble in water.	Complies
Relative Density:	0.910 - 0.935 @ 20°C	0.91
Refractive Index:	1.4625 - 1.4825 @ 20°C	1.4724
Free Fatty Acid:	Max. 10 (as % Oleic acid)	2.32
Acid Value:	Max. 20 (mg KOH/g)	4.64
Saponification Value:	180 - 210 (mg KOH/g)	201
C16:0, Palmitic Acid:	8 - 15 %	12.4
C18:0, Stearic Acid:	< 5 %	3.38
C18:1, Oleic Acid:	18 - 30 %	24.9
C18:2, Linoleic acid:	50 - 65 %	56.14

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: Black Cumin Seed Carrier Oil - Virgin

Lot #: 15081A10320

Best Before: March, 2022

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Amber to deep amber liquid.	Complies
Odor:	Characteristic nutty pungent odor.	Complies
Solubility:	Insoluble in water.	Complies
Relative Density:	0.910 - 0.935 @ 20°C	0.91
Refractive Index:	1.4625 - 1.4825 @ 20°C	1.4724
Free Fatty Acid:	Max. 10 (as % Oleic acid)	2.32
Acid Value:	Max. 20 (mg KOH/g)	4.64
Saponification Value:	180 - 210 (mg KOH/g)	201
C16:0, Palmitic Acid:	8 - 15 %	12.4
C18:0, Stearic Acid:	< 5 %	3.38
C18:1, Oleic Acid:	18 - 30 %	24.9
C18:2, Linoleic acid:	50 - 65 %	56.14

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: Black Cumin Seed Carrier Oil - Virgin

Lot #: 15081A10819

Best Before: August, 2021

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Amber to deep amber liquid.	Complies
Odor:	Characteristic nutty pungent odor.	Complies
Solubility:	Insoluble in water.	Complies
Relative Density:	0.910 - 0.935 @ 20°C	0.910
Refractive Index:	1.4625 - 1.4825 @ 20°C	1.4730
Free Fatty Acid:	Max. 10 (as % Oleic acid)	2.71
Acid Value:	Max. 20 (mg KOH/g)	5.39
Saponification Value:	180 - 210 (mg KOH/g)	200
C16:0, Palmitic Acid:	8 - 15 %	12.64
C18:0, Stearic Acid:	< 5 %	2.99
C18:1, Oleic Acid:	18 - 30 %	19.44
C18:2, Linoleic acid:	50 - 65 %	60.077

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: Black Cumin Seed Carrier Oil - Virgin

Lot #: 15081A131

Best Before: July, 2021

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Amber to deep amber liquid.	Complies
Odor:	Characteristic nutty pungent odor.	Complies
Solubility:	Insoluble in water.	Complies
Relative Density:	0.910 - 0.935 @ 20°C	0.926
Refractive Index:	1.4625 - 1.4825 @ 20°C	1.4738
Free Fatty Acid:	Max. 10 (as % Oleic acid)	Complies
Acid Value:	Max. 20	Complies
Saponification Value:	180 - 210 (mg KOH/g)	Complies
C16:0, Palmitic Acid:	8 - 15 %	Complies
C18:0, Stearic Acid:	< 5 %	Complies
C18:1, Oleic Acid:	18 - 30 %	Complies
C18:2, Linoleic acid:	50 - 65 %	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: Black Cumin Seed Carrier Oil - Virgin

Lot #: 15081B112

Best Before: May, 2021

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Amber to deep amber liquid.	Complies
Odor:	Characteristic nutty pungent odor.	Complies
Solubility:	Insoluble in water.	Complies
Relative Density:	0.910 - 0.935 @ 20°C	0.922
Refractive Index:	1.4625 - 1.4825 @ 20°C	1.4739
Free Fatty Acid:	< 10 (as % Oleic acid)	Complies
Acid Value:	< 20	Complies
Saponification Value:	180 - 210 (mg KOH/g)	Complies
C16:0, Palmitic Acid:	8 - 15 %	Complies
C18:0, Stearic Acid:	< 5 %	Complies
C18:1, Oleic Acid:	18 - 30 %	Complies
C18:2, Linoleic acid:	50 - 65 %	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.