

CERTIFICATE OF ANALYSIS

Product: Spearmint 65% (India) Essential Oil

Lot No.: 11310C11220

Best Before: September, 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:	Light yellow to pale yellow liquid.	Complies
Odor:	Characteristic spearmint odor.	Complies
Solubility:	Soluble in 3.5 volume of 70% alcohol solution. Insoluble in water.	Complies
Specific Gravity:	0.918 to 0.930 @ 20°C	0.921
Refractive Index:	1.485 to 1.494 @ 20°C	1.489
Optical Rotation:	-65° to -45° @ 20°C	-60.25°
L-Carvone:	52 – 70 %	65.85
α -pinene:	0.5 – 2.0 %	1.05
Limonene:	17 – 25 %	20.50
Cineole:	1.30 – 2.20 %	1.65
Total Terpene:	20 – 30 %	24.10

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 ANALYSISProduct: **Spearmint 65% (India) Essential Oil**

Lot No.: 11310A10920

Best Before: May, 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:	Reddish yellow to light yellow liquid.	Complies
Odor:	Characteristic spearmint odor.	Complies
Solubility:	Soluble in 3.5 volume of 70% alcohol solution. Insoluble in water.	Complies
Specific Gravity:	0.918 to 0.930 @ 20°C	0.921
Refractive Index:	1.485 to 1.494 @ 20°C	1.486
Optical Rotation:	-65 to -45 @ 20°C	-61.50°
L-Carvone:	52 – 70 %	62.10
α -pinene:	0.5 – 2.0 %	1.35
Limonene:	17 – 25 %	21.65
Cineole:	1.30 – 2.20 %	1.90
Total Terpene:	20 – 30 %	25.50

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: Spearmint 65% (India) Essential Oil

Lot No.: 11310B11019

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:	Reddish yellow to light yellow liquid.	Complies
Odor:	Characteristic spearmint odor.	Complies
Solubility:	Soluble in 3.5 volume of 70% alcohol solution. Insoluble in water.	Complies
Specific Gravity:	0.918 to 0.930 @ 20°C	0.921
Refractive Index:	1.485 to 1.494 @ 20°C	1.489
Optical Rotation:	-65 to -45 @ 20°C	-60.75°
L-Carvone:	52 - 70 %	67.50
α -pinene:	0.5 - 2.0 %	1.15
Limonene:	17 - 25 %	20.95
Cineole:	1.30 - 2.20 %	1.95
Total Terpene:	20 - 30 %	23.70

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: Spearmint 65% (India) Essential Oil

Lot No.: 11310C11219

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:	Reddish yellow to light yellow liquid.	Complies
Odor:	Characteristic spearmint odor.	Complies
Solubility:	Soluble in 3.5 volume of 70% alcohol solution. Insoluble in water.	Complies
Specific Gravity:	0.9200 to 0.9350 @ 25°C	0.9275
Refractive Index:	1.4900 to 1.4970 @ 20°C	1.4901
Optical Rotation:	-55 to -62 @ 20°C	-56.48°
L-Carvone:	65 - 70 %	65.79

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: Spearmint 65% (India) Essential Oil

Lot No.: 11310A10719

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:	Reddish yellow to light yellow liquid.	Complies
Odor:	Characteristic spearmint odor.	Complies
Solubility:	Soluble in 3.5 volume of 70% alcohol solution. Insoluble in water.	Complies
Specific Gravity:	0.901 to 0.945 @ 20°C	0.926
Refractive Index:	1.475 to 1.498 @ 20°C	1.487
Optical Rotation:	-62 to -48 @ 20°C	-55.9°
L-Carvone:	60 - 70 %	65.9
α -pinene:	0.8 - 1.5 %	Complies
Limonene:	15 - 30 %	19.9
Cineole:	1.0 - 3.0 %	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: Spearmint 65% (India) Essential Oil

Lot No.: 11310-A12

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:	Reddish yellow to light yellow liquid.	Complies
Odor:	Characteristic spearmint odor.	Complies
Solubility:	Soluble in 3.5 volume of 70% alcohol solution. Insoluble in water.	Complies
Specific Gravity:	0.918 to 0.930 @ 20°C	Complies
Refractive Index:	1.485 to 1.494 @ 20°C	Complies
Optical Rotation:	-65 to -45 @ 20°C	Complies
L-Carvone:	52 - 70 %	65.80
α -pinene:	0.50 - 2.00 %	1.10
Limonene:	17 - 25 %	21.50
Cineole:	1.30 - 2.20 %	1.95
Total Terpene:	20 - 30 %	25.15

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.