

CERTIFICATE OF ANALYSIS

Product: Fennel Sweet Essential Oil

Lot No.: 11054B11020

Best Before: October, 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:	Colorless to pale yellow clear liquid.	Complies
Odor:	Characteristic spicy sweet woody odor.	Complies
Solubility:	1:1 in 90% alcohol.	Complies
Specific Gravity:	0.953 to 0.973 @ 20°C	0.965
Refractive Index:	1.532 to 1.543 @ 20°C	1.536
Optical Rotation:	+12.0° to +24° @ 20°C	14.667
Trans-Anethol:	60 – 80 %	73.5
Fenchon:	8 – 20 %	12.4
Estragol:	2 – 6 %	2.7

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.

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Solubility:	1:1 in 90% alcohol.	Complies
Specific Gravity:	0.953 to 0.973 @ 20°C	0.965
Refractive Index:	1.532 to 1.543 @ 20°C	1.536
Optical Rotation:	+12.0° to +24° @ 20°C	14.599
Trans-Anethol:	60 – 80 %	74.2
Fenchon:	8 – 20 %	12.1
Estragol:	2 – 6 %	2.7

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CERTIFICATE OF ANALYSIS

Product: Fennel Sweet Essential Oil

Lot No.: 11054A109191

Best Before: September, 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:	Colorless to pale yellow clear liquid.	Complies
Odor:	Characteristic spicy sweet woody odor.	Complies
Solubility:	1:1 in 90% alcohol.	Complies
Specific Gravity:	0.950 to 0.975 @ 20°C	Complies
Refractive Index:	1.525 to 1.546 @ 20°C	Complies
Optical Rotation:	+8.0° to +24° @ 20°C	Complies
Trans-Anethol:	60 – 80 %	Complies
Fenchon:	8 – 20 %	Complies
Estragol:	2 – 6 %	Complies

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CERTIFICATE OF ANALYSIS

Product: Fennel Sweet Essential Oil

Lot No.: 11054A10919

Best Before: September, 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:	Colorless to pale yellow clear liquid.	Complies
Odor:	Characteristic spicy sweet woody odor.	Complies
Solubility:	1:1 in 90% alcohol.	Complies
Specific Gravity:	0.950 to 0.975 @ 20°C	0.975
Refractive Index:	1.525 to 1.546 @ 20°C	1.535
Optical Rotation:	+8.0° to +24° @ 20°C	+13.79°
Trans-Anethol:	60 – 80 %	69.1
Fenchon:	8 – 20 %	10.8
Estragol:	2 – 6 %	2.8

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CERTIFICATE OF ANALYSIS

Product: Fennel Sweet Essential Oil

Lot No.: 11054A211, 11054B211

Best Before: May, 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:	Colorless to pale yellow clear liquid.	Complies
Odor:	Characteristic spicy sweet woody odor.	Complies
Solubility:	1:1 in 90% alcohol.	Complies
Specific Gravity:	0.953 to 0.973 @ 20°C	0.971
Refractive Index:	1.532 to 1.543 @ 20°C	1.5337
Optical Rotation:	+12° to +24° @ 20°C	Complies
Trans-Anethol:	50 – 80 %	Complies
Fenchon:	< 15.0 %	Complies

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