

## CERTIFICATE OF ANALYSIS

Product: Birch Sweet Essential Oil – Natural Blend

Lot No.: 90018C10421

Best Before: February, 2023

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Colorless to pale yellow clear oily liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Souble in 6.56ml alcohol (with 70 % @ 25°C)	Complies
Specific Gravity:	1.1600 to 1.1950 @ 25°C	1.1804
Refractive Index:	1.523 to 1.543 @ 20°C	1.5352
Assay (Methyl Salicylate):	≥ 99.0 %	99.43

### 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: Birch Sweet Essential Oil – Natural Blend

Lot No.: 90018B10321

Best Before: February, 2023

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Colorless to pale yellow clear oily liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Souble in 6.56ml alcohol (with 70 % @ 25°C)	Complies
Specific Gravity:	1.1600 to 1.1950 @ 25°C	1.1804
Refractive Index:	1.523 to 1.543 @ 20°C	1.5352
Assay (Methyl Salicylate):	≥ 99.0 %	99.43

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## CERTIFICATE OF ANALYSIS

Product: Birch Sweet Essential Oil – Natural Blend  
Lot No.: 90018A11120  
Best Before: September, 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:	Colorless to pale yellow clear liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Souble in 6.56ml alcohol (with 70 % @ 25°C)	Complies
Specific Gravity:	1.160 to 1.195 @ 25°C	1.1826
Refractive Index:	1.523 to 1.543 @ 20°C	1.5361
Assay (Methyl Salicylate):	≥ 99.0 %	99.768

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CERTIFICATE OF ANALYSIS

Product: Birch Sweet Essential Oil – Natural Blend

Lot No.: 90018A103201

Best Before: August, 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:	Colorless to pale yellow liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Soluble in 1ml: 4ml of 80 % ethanol @ 25°C.	Complies
Specific Gravity:	1.160 to 1.195 @ 20°C	Complies
Refractive Index:	1.523 to 1.543 @ 20°C	Complies
Optical Rotation:	-1.0° to +1.0° @ 20°C	Complies
Assay:	≥ 99.0 %	Complies

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CERTIFICATE OF ANALYSIS

Product: Birch Sweet Essential Oil – Natural Blend

Lot No.: 90018A109191

Best Before: June, 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:	Colorless, pale yellow-reddish brown clear liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Souble in 6.56ml alcohol (with 70 % @ 25°C)	Complies
Specific Gravity:	1.176 to 1.182 @ 25°C	Complies
Refractive Index:	1.535 to 1.538 @ 20°C	Complies
Optical Rotation:	-1.0° to +1.0° @ 20°C	Complies
Assay:	≥ 98.0 %	Complies

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CERTIFICATE OF ANALYSIS

Product: Birch Sweet Essential Oil – Natural Blend

Lot No.: 90018A10321

Best Before: April, 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:	Colorless, pale yellow-reddish brown clear liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Souble in 6.56ml alcohol (with 70 % @ 25°C)	Complies
Specific Gravity:	1.160 to 1.195 @ 20°C	1.1777
Refractive Index:	1.523 to 1.543 @ 20°C	1.5349
Assay:	≥ 99.0 %	99.37 %

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CERTIFICATE OF ANALYSIS

Product: Birch Sweet Essential Oil – Natural Blend  
Lot No.: 90018A10320  
Best Before: August, 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:	Colorless to pale yellow liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Soluble in 1ml: 4ml of 80 % ethanol @ 25°C.	Complies
Specific Gravity:	1.160 to 1.195 @ 20°C	1.1825
Refractive Index:	1.523 to 1.543 @ 20°C	1.5361
Optical Rotation:	-1.0° to +1.0° @ 20°C	Complies
Assay:	≥ 99.0 %	99.765

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## CERTIFICATE OF ANALYSIS

Product: Birch Sweet Essential Oil – Natural Blend  
Lot No.: 90018A10919  
Best Before: June, 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:	Colorless, pale yellow-reddish brown clear liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Souble in 6.56ml alcohol (with 70 % @ 25°C)	Complies
Specific Gravity:	1.176 to 1.182 @ 25°C	1.1812
Refractive Index:	1.535 to 1.538 @ 20°C	1.5352
Optical Rotation:	-1.0° to +1.0° @ 20°C	Complies
Assay:	≥ 99.0 %	99.7

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