



Certificate of Analysis

1) Product Identification

Product Name: Spruce Black Essential Oil
Botanical Name: Picea mariana
Country of Origin: Canada
Cultivation Method: Conventional
Extraction Method: Steam Distilled
Plant Part: Needles and Twigs
Lot #: 1
Best by Date: December 2019

2) Physical and Chemical Properties

Appearance:	Colourless to pale yellow mobile liquid	Conforms
Odor:	Characteristic	Conforms
Specific Gravity:	0.900 to 0.920 @ 20°C	Conforms
Refractive Index:	1.465 to 1.480 @ 20°C	Conforms
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Conforms

3) Gas Chromatography Analysis (Typical)

Components:

alpha-Pinene	14.0 – 32.0%	delta-3-Carene	8.0 – 18.0%
Camphene	8.0 – 18.0%	Bornyl acetate	15.0 – 30.0%
beta-Pinene	2.0 – 9.0%		

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4) Storage Conditions

Store at temperature <math><30^{\circ}\text{C}</math> in closed containers and protected from direct sunlight.

5) Remarks

This Essential Oil is a 100% pure and natural product.
It does not contain any artificial ingredients or adulteration of any kind to the best of our knowledge.

6) Disclaimer

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