



## 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 #: 2  
Best by Date: January 2022

### 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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