



CERTIFICATE OF ANALYSIS

PRODUCT IDENTIFICATION

NAME : Black Spruce oil
SCIENTIFIC NAME: Picea mariana
PLANT PART: Needles and Twigs
PURITY: 100% pure and natural
COUNTRY OF ORIGIN: Canada
LOT NUMBER: EAB742627
MANUFACTURING DATE: 2020/09/01
BEST BEFORE: September 2021
CERTIFICATES: Ecocert, USDA organic

ORGANOLEPTIC PROPERTIES

| Property | Specification | Results |
|------------|---------------------------------|----------|
| Appearance | Colorless to pale yellow liquid | Complies |
| Odor | Fresh, sweet, woody odor | Complies |

CHEMICAL AND PHYSICAL PROPERTIES

| Property | Specification |
|--------------------------|----------------------|
| Specific Gravity @ @20°C | 0.900 – 0.915 |
| Refractive Index @20°C | 1.467-1.472 |
| Flash Point | 42°C |
| Optical Rotation | -40.0 – -20.0 @ 20°C |

COMPOSITIONS: alpha pinene 12-19%, bornyl acetate 24-32%, camphene 12-22%, delta-3-carene 3-12%