



Certificate of Analysis

ABIES SIBIRICA NEEDLE OIL

Product code	: BLPEO1145
Sample designation	: Siberian Fir Essential Oil
Botanical name	: Abies sibirica
CAS#	: 88021-29-2 ; 91697-89-1
FEMA#	: 2905
EINECS#	: 294-351-9
Lot number	: 11452304
Geographic origin	: Russia
Type of culture	: Organic
Part of the plant used	: Needles
Extraction method	: Steam distillation
Manufacturing date	: April 2023
Re-test date	: March 2025



ORG/SC/2202/001041

Sensory Check

Feature	Reference	Result
Appearance:	Colorless to pale yellow liquid	meets
Fragrance:	Fresh, balsamic, sweet, evergreen- coniferous aroma	meets
Color:	Colorless to pale yellow	meets
Note classification:	Top to Middle Note	

Analytical Check

Properties	Specifications	Results
Refractive index	1.460 - 1.480 @ 20°C	1.472
Specific gravity (g/mL)	0.905 - 0.925 @ 20°C	0.915
Optical Rotation (°)	-55° to -30°	Conforms
Solubility	Soluble in alcohols and fixed oils Insoluble in water	Conforms
Allergens	Linalool CAS No. 78-70-6	10.0%

Microbial Analyses	Specifications	Standard	Results
Aerobic Mesophilic Bacterial Count	< 100 CFU/g	ISO 21149	Conforms
Yeast and Mould	< 10 CFU/g	ISO 16212	Conforms
Candida albicans	ABSENT / 1g	ISO 18416	Conforms
Escherichia coli	ABSENT / 1g	ISO 21150	Conforms
Pseudomonas aeruginosa	ABSENT / 1g	ISO 22717	Conforms
Staphylococcus aureus	ABSENT / 1g	ISO 12718	Conforms

Heavy Metal Test	Specifications	Standards	Results
Lead: Pb (mg/kg or ppm)	< 10 ppm	n/a	Conforms
Arsenic: As (mg/kg or ppm)	< 2 ppm	n/a	Conforms
Mercury: Hg (mg/kg or ppm)	< 1 ppm	n/a	Conforms

Stability and Storage

Keep in tightly closed containers in a cool and dry place, protected from sunlight. When stored for more than 24 months, quality should be checked before use.

As this is electronically generated document, hence no signature required.

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