



## Certificate of Analysis

### PINUS CEMBRA LEAF/TWIG OIL

Product code	: BLPEO2202
Sample designation	: Pine Cembra Essential Oil
Botanical name	: Pinus cembra
CAS#	: 92202-04-5
FEMA#	: -
EINECS#	: 296-036-1
Lot number	: L22-02
Geographic origin	: Italy
Type of culture	: Organic
Part of the plant used	: Needles and Twigs
Extraction method	: Steam distillation
Manufacturing date	: February 2022
Re-test date	: December 2025



ORG/SC/2202/001041

#### Sensory Check

Feature	Reference	Result
Appearance:	Clear to pale yellow colored liquid	meets
Fragrance:	Complex, balsamic, resinous, warm, rich, woody, sweet, green aroma	meets
Color:	Clear to pale yellow	meets
Note classification:	Top Note	

#### Analytical Check

Properties	Specifications	Results
Refractive index	1.470 - 1.480 @ 20°C	1.475
Specific gravity (g/mL)	0.850 - 0.890 @ 20°C	0.865
Optical Rotation (°)	-15° to -5°	Conforms
Solubility	Soluble in alcohols and fixed oils Insoluble in water	Conforms
Allergens	Limonene	14,49%

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.

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