

CERTIFICATE OF ANALYSIS

Organic Essential Oil of Pinus Sylvestris from Bulgaria
100% pure and natural

Botanical name :	<i>Pinus sylvestris L.</i>
Commercial name :	Organic Pinus Sylvestris
Batch number :	2300387
Geographical origin :	Bulgaria
Production date :	September 2022

Physical and chemical data :

	Standards	Results of analysis
Appearance	Fluid liquid	Conform
Colour	Colourless to yellow	Conform
Odour	Characteristic	Conform
Specific gravity at 20°C	0.855 to 0.885	0.8628
Refractive index at 20°C	1.470 to 1.485	1.4706
Optical rotation at 20°C	-30° to -10°	-12.39°
Flash point	+35°C to +45°C	

Table of components (1) :

Components	Contents
Benzene, Methyl-	0.02%
Santene	0.08%
Tricyclene	0.17%
Alpha-thujene	0.74%
Alpha-Pinene	50.11%
Alpha-fenchene	0.08%
Camphene	2.01%
Verbenene	0.05%
o-Cymene	0.09%
Sabinene	1.03%
Beta-pinene	15.02%
Myrcene	1.87%
Sabinene	0.16%
3-Carene	6.86%
Alpha-terpinene	0.22%
3-Oxatricyclo[5.1.0.02,4]octane, 4,8,8-trimethyl	0.05%
Para-cymene	3.78%
Limonene	4.97%
Acetic Acid, 5-methylhex-2-yl ester	0.04%
Gamma-terpinene	0.63%
Terpinolene	3.33%

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Table of components (2) :

Components	Contents
Linalool	0.07%
1-Isopropyl-4-methylbicyclo[3.1.0]	0.04%
1,3,8-para-menthatriene	0.03%
1,3,3-trimethyl-2-nor-bornan-ol	0.03%
Trans-thuyone	0.3%
3,8-dimethylene-1-cyclooctene	0.03%
Trans-pinocarveol	0.1%
Bicyclo[3.1.1]hept-3-en-2-ol,4,6,6-trimethyl-	0.07%
exo-2,7,7-trimethylbicyclo[2.2.1]heptan-2-ol	0.04%
Menthone	0.06%
9-Mentha-1,5-dien-8-ol	0.1%
Isoborneol	0.14%
d-Menthol	0.14%
Terpinene-4-ol	2.51%
Benzenemethanol, 4-(1-methylethyl)-	0.09%
Benzenemethanol, alpha, alpha, 4-trimethyl	1.19%
Beta-terpineol	0.57%
p-allyl-anisole	0.12%
2,4-cyclohexene-1-one, 3-methyl-6-(1-methethyl)-	0.04%
1-cyclohexene-1-carboxaldehyde,4-(1-methylethyl)-	0.03%
2-Norbornanol,1,3,3-trimethyl-, acetate, endo	0.82%
Trans acetate de sabinyle	0.51%
5-caranol, (1S,3R,5S,6R)-	0.03%
Acetate d'alpha-terpinyle	0.25%
Copaene	0.03%
Junipene	0.28%
Caryophyllene	0.63%
Alpha-humulene	0.09%
Trans-Cadina-1(6),4-diene	0.03%
Germacrene D	0.04%
Beta-bisabolene	0.04%
Gamma-cadinene	0.07%
Delta-cadinene	0.16%
TOTAL	99.99%