

## CERTIFICATE OF ANALYSIS

Organic essential oil of *Pinus sylvestris* from Bulgaria  
100% pure and natural

Botanical name : *Pinus sylvestris* L.  
Commercial name : Organic *Pinus sylvestris*  
Batch number : **1700719**  
Geographical origin : Bulgaria

### **Physical and chemical data :**

	<b>Standards</b>	<b>Results of analysis</b>
<b>Appearance</b>	fluid liquid	Conform
<b>Colour</b>	colourless to yellow	Conform
<b>Odour</b>	characteristic	Conform
<b>Specific gravity at 20°C</b>	0.857 to 0.885	0.8638
<b>Refractive index at 20°C</b>	1.470 to 1.485	1.4741
<b>Optical rotation at 20°C</b>	-30° to -10°	- 20.52°
<b>Flash point</b>	+41°C	

### **Table of components :**

<b>Components</b>	<b>Contents</b>
α-pinene	42.80%
Camphene	3.38%
β-pinene	24.94%
β-myrcene	5.24%
δ-3-carene	1.31%
Limonene	9.48%
β-phellandrene	2.38%
β-ocimene	1.26%
γ-terpinene	0.11%
Terpinolene	0.50%
Bornyl Acetate	0.81%
α-terpineol	0.53%
β-caryophyllene	1.74%
α-humulene	0.33%
γ-murolene	0.18%
α-murolene	0.15%
δ-cadinene	1.11%
γ-cadinene	0.51%
<b>TOTAL</b>	<b>96.76%</b>