

**QUALITY CERTIFICATE**

Product name: PINE SYILVESTRIS OIL  
Quality: Ph.Eur.11.0.  
Package: 50 g  
Lot No.: GF5756185  
Manufacturing date: 06.2023.  
Expiry date: 25.06.2026. (DMY)  
Anal. No.: 15812H56185

	<b>REQUIRED</b>	<b>MEASURED</b>
Appearance:	colourless or slightly yellow, clear liquid	enyhén sárga, tiszta folyadék
Identity	identical	identical
Density (d <sub>20</sub> <sup>20</sup> )	0,855-0,875	0,868
Refractive index (n <sub>D</sub> <sup>20</sup> )	1,465-1,480	1,472
[α] <sub>D</sub> <sup>20</sup>	(-9°)-(-30°)	-12,6
Acid value	max.1,0	0,47
Peroxide value	max.20	8,8
Fatty oils and resinified essential oils	passes test	passes test
Chromatographic profile (GC)	passes test	passes test
alfa-Pinene	32,0-60,0 %	35,5 %
Camphene	0,5-2,0 %	1,0 %
beta-Pinene	5,0-22,0 %	20,2 %
car-3-ene	6,0-18,0 %	15,7 %
beta-Myrcene	1,5-10,0 %	2,2 %
limonene	7,0-12,0 %	10,3 %
beta-Phellandrene	max.2,5 %	0,8 %
p-Cymene	max.2,0 %	0,4 %
Terpinolene	max.4,0 %	3,0 %
beta-Caryophyllene	1,0-6,0 %	4,8 %
Bornil acetate	1,0-4,0 %	3,0 %

**The Product complies with the requirements of Ph.Eur.11.0.**

Kiállítva: Halásztelek, 2023.08.25.



Nagy Balázs

minőségbiztosítási vezető

**Molar Chemicals Kft.**  
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