

**QUALITY CERTIFICATE**

Product name: LEMON OIL  
Quality: Ph.Eur.11.0.  
Package: 10 g  
Lot No.: FK0458410  
Manufacturing date: 11.2021.  
Expiry date: 29.01.2027. (DMY)  
Anal. No.: 17315H58410

	<b>REQUIRED</b>	<b>MEASURED</b>
Appearance:	clear, pale yellow or greenish-yellow liquid	yellowish, clear liquid
Identity	identical	identical
Density (d <sub>20</sub> <sup>20</sup> )	0,850-0,858	0,850
Refractive index (n <sub>D</sub> <sup>20</sup> )	1,473-1,476	1,473
[α] <sub>D</sub> <sup>20</sup>	(+5,7)-(+7,0) °	+6,2 °
Absorbance	passes test	passes test
Fatty oils and resinified essential oils	passes test	passes test
Chromatographic profile (GC)	passes test	passes test
beta-Pinene	7,0-17,0 %	13,2 %
sabinene	1,0-3,0 %	1,9 %
limonene	56,0-78,0 %	66,4 %
beta-Caryophyllene	max.0,5 %	0,1 %
alfa-Terpineol	max.0,6 %	0,2 %
Neral	0,3-1,5 %	0,7 %
gamma-Terpinene	6,0-12,0 %	8,8 %
Neryl-acetate	0,2-0,9 %	0,2 %
Geranial	0,5-2,3 %	1,1 %
Geranyl acetate	0,1-0,8 %	0,2 %
Evaporation residue	1,8-3,6 %	2,1 %

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

Kiállítva: Halásztelek, 2024.01.29.

  
Nagy Balázs

minőségbiztosítási vezető

**Molar Chemicals Kft.**  
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