

CERTIFICATE OF ANALYSIS

Customer:
 Art.-No.: P0124476
 Description: Rosemary Oil E.P.

F+L Order No.: 22105905 Pos.: 1
 Batch/Lot-No.: 1256089
 Production date: 23.04.2021
 Date of analysis: 26.04.2021
 Best before use: 22.04.2024

Characters: A clear, mobile, colourless to pale yellow liquid, with a characteristic odour .

Analytical Data	Method	Target Value	Measured Value
Identification:			
GC	Method Ph.Eur.	must comply	complies
Purity:			
Relative density (d20/20)	2.2.5	0.895 - 0.920	0.9111
Optical rotation (α ₂₀)	2.2.7	-5 - +8 °	+0.8 °
Refractive index (n _D 20)	2.2.6	1.464 - 1.473	1.4672
Acid value	2.5.1_FL	≤ 1.0	0.1
Chromatographic profile:			
alpha-Pinene	2.2.28_FL WAX 35	9.0 - 14.0 %	11.6 %
Camphene	2.2.28_FL WAX 35	2.5 - 6.0 %	4.3 %
beta-Pinene	2.2.28_FL WAX 35	4.0 - 9.0 %	7.5 %
beta-Myrcene	2.2.28_FL WAX 35	1.0 - 2.0 %	1.5 %
Limonene	2.2.28_FL WAX 35	1.5 - 4.0 %	2.2 %
1,8-Cineole	2.2.28_FL WAX 35	38.0 - 55.0 %	45.9 %
para-Cymene	2.2.28_FL WAX 35	0.8 - 2.5 %	1.1 %
Camphor	2.2.28_FL WAX 35	5.0 - 15.0 %	9.5 %
Bornyl acetate	2.2.28_FL WAX 35	0.1 - 1.5 %	0.9 %
alpha-Terpineol	2.2.28_FL WAX 35	1.0 - 2.6 %	1.8 %
Borneol	2.2.28_FL WAX 35	1.5 - 5.0 %	2.8 %
Verbenone	2.2.28_FL WAX 35	≤ 0.4 %	n.d.

This product complies in all points with the above-mentioned monograph.