

CERTIFICATE OF ANALYSIS

Certificate of Analysis

Product number: PO125963
 Product name: Lemon oil Italian Top Quality
 Order No.: 22010930 Pos. 1
 Batch no.: 1215819
 Manufacturing date: 05/08/2020 Expiry date: 05/08/2023
 Date of analysis: 06/08/2020 Place of analysis: Frey & Lau GmbH
 Characters: Clear, pale yellow to greenish-yellow liquid with
 Characteristic odour and taste. It may become cloudy in low
 temperatures.

Identification:	Specific Value	Result
GC (according to ISO 11024):	must comply	Complies
Purity:		
Relative Density (2.2.5):	0.850 - 0.858	0.854
Refractive Index (2.2.6):	1.473 - 1.476	1.475
Optical Rotation (2.2.7):	+57° - +70°	+62.8°
Fatty oils and resinified Essential oils (2.8.7)	must comply	Complies

Chromatographic profile (2.2.28, FL. WAX35) :

Beta-Pirene:	7.0 - 17.0%	14.3%
Limonene:	56.0 - 78.0 %	66.4%
gamma Terpinene:	6.0 - 12.0%	7.5%
Neral:	0.3 - 1.5%	0.7%
Geranial:	0.5 - 2.3%	1.0%

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

Henstedt-Ulzburg, 06/08/2020


 Dr. Daniela Flamm
 Quality Control