

## CERTIFICATE OF ANALYSIS

Organic Essential Oil of Lemon from Italy  
100% pure and natural

Botanical name : *Citrus limon (L.) Osbeck*  
Commercial name : Organic Lemon  
Batch number : **2300455**  
Geographical origin : Italy  
Production date : June 2023

### Physical and chemical data :

	Standards	Results of analysis
<b>Appearance</b>	Fluid liquid	Conform
<b>Colour</b>	Light yellow to greenish	Conform
<b>Odour</b>	Fresh, powerful	Conform
<b>Specific gravity at 20°C</b>	0.840 to 0.860	0.8510
<b>Refractive index at 20°C</b>	1.465 to 1.490	1.4730
<b>Optical rotation at 20°C</b>	+55° to +75°	+65.20°
<b>Flash point</b>	+45°C to +59°C	

### Table of components (1) :

Components	Contents
Alpha-thujene	0.40%
Alpha-pinene	1.85%
Camphene	0.06%
Sabinene	1.72%
Beta-pinene	11.07%
Myrcene	1.59%
Octanal	0.07%
Alpha-terpinene	0.20%
Para-cymene	0.20%
Limonene	67.54%
Z-beta-ocimene	0.06%
E-beta-ocimene	0.12%
Gamma-terpinene	9.09%
Octanol	0.03%
Terpinolene	0.35%
Linalool	0.10%
Nonanal	0.07%
Citronellal	0.08%
Terpinene-4-ol	0.04%
Alpha-terpineol	0.12%
Decanal	0.04%

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### **Table of components (2) :**

<b>Components</b>	<b>Contents</b>
Nerol + Citronellol	0.03%
Neral	0.92%
Geraniol	0.02%
Geranial	1.50%
Perillaldehyde	0.01%
Undecanal	0.01%
Alpha-terpenyl Acetate	0.02%
Neryl Acetate	0.42%
Alpha-copaene	0.01%
Geranyl Acetate	0.32%
Alpha-cadinene	0.03%
Dodecanal	0.02%
Beta-caryophyllene	0.18%
Bergamottene	0.30%
Cis-trans-farnesene	0.01%
Santalene	0.01%
Gamma-murolene	0.02%
Germacrene D	0.02%
Alpha-bisabolene	0.08%
Beta-bisabolene	0.40%
Elemol	0.02%
<b>TOTAL</b>	<b>99.15%</b>