

## CERTIFICATE OF ANALYSIS

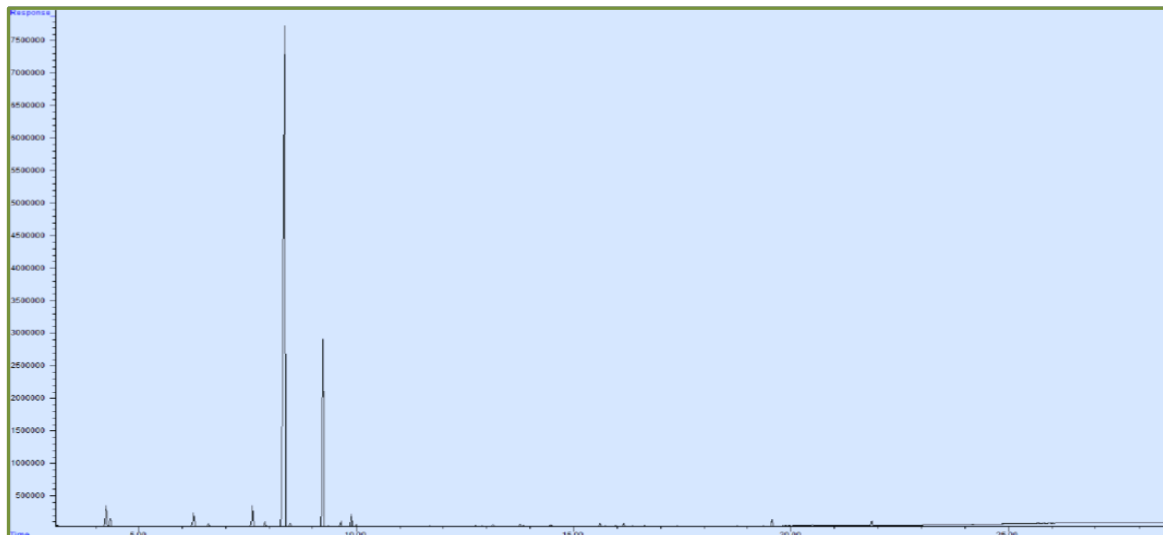
Organic Essential Oil of Red Mandarin from Italy  
100% pure and natural

Botanical name :	<i>Citrus reticulata</i> Blanco
Commercial name :	Organic Red Mandarin
Batch number :	<b>2100187</b>
Geographical origin :	Italy
Production date :	November 2021

**Physical and chemical data :**

	Standards	Results of analysis
<b>Appearance</b>	Mobile liquid	Conform
<b>Colour</b>	Yellow orangey to red	Conform
<b>Odour</b>	Characteristic, fresh, citric note	Conform
<b>Specific gravity at 20°C</b>	0.840 to 0.870	0,8515
<b>Refractive index at 20°C</b>	1.465 to 1.480	1,4750
<b>Optical rotation at 20°C</b>	+60° to +85°	+ 73,20°
<b>Flash point</b>	+45°C à +55°C	

**Chromatographic Profile :**



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### **Table of components :**

Components	Contents
$\alpha$ -pinene	2.23%
$\alpha$ -thujene	0.76%
Camphene	0.02%
$\beta$ -pinene	1.45%
Sabinene	0.24%
Myrcene	1.83%
$\alpha$ -terpinene	0.42%
Limonene	72.57%
$\beta$ -phellandrene	0.20%
$\gamma$ -terpinene	17.11%
Trans- $\beta$ -ocimene	0.03%
Para-cymene	0.38%
Terpinolene	0.86%
Octanal	0.12%
Nonanal	0.03%
Trans-Sabinene Hydrate	0.03%
Citronellal	0.02%
Decanal	0.09%
Linalool	0.12%
Cis-Sabinene Hydrate	0.04%
$\beta$ -caryophyllene + Terpinene-4-ol	0.10%
$\alpha$ -terpineol	0.17%
$\alpha$ -selinene	0.04%
Trans-trans- $\alpha$ -farnesene	0.16%
Methyl N-methylantranilate	0.44%
Thymol	0.05%
$\alpha$ -sinensal	0.31%
<b>TOTAL</b>	<b>99.82%</b>