

## CERTIFICATE OF ANALYSIS

Organic Essential Oil of Grapefruit from Paraguay  
100% pure and natural

Botanical name : *Citrus paradisi Macfad.*  
Commercial name : Organic Grapefruit  
Batch number : **2100226**  
Geographical origin : Paraguay  
Production date : December 2020

### Physical and chemical data :

	Standards	Results of analysis
<b>Appearance</b>	Liquid	Conform
<b>Colour</b>	Colourless to orangey	Conform
<b>Odour</b>	Sweet, fruity	Conform
<b>Specific gravity at 20°C</b>	0.840 to 0.870	0.8533
<b>Refractive index at 20°C</b>	1.465 to 1.485	1.4756
<b>Optical rotation at 20°C</b>	+75° to +105°	+94.91°
<b>Flash point</b>	+40°C à +55°C	

### Table of components (1) :

Components	Contents
$\alpha$ -pinene	0.56%
$\beta$ -pinene	0.02%
Sabinene	0.26%
Myrcene	2.03%
Limonene	94.32%
$\beta$ -phellandrene	0.27%
Z- $\beta$ -ocimene	0.01%
$\gamma$ -terpinene	0.02%
E- $\beta$ -ocimene	0.10%
Para-cymene	0.01%
$\alpha$ -terpinolene	0.04%
Octanal	0.35%
Nonanal	0.05%
Citronellal	0.06%
$\alpha$ -copaene	0.09%
Decanal	0.26%
$\beta$ -cubebene	0.07%
Linalool	0.09%
1-Octanol	0.02%
$\beta$ -caryophyllene	0.27%
$\alpha$ -humulene	0.04%

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

<b>Components</b>	<b>Contents</b>
Neral	0.05%
$\alpha$ -terpineol	0.04%
Germacrene D	0.10%
Geranial	0.12%
$\delta$ -cadinene	0.15%
Nootkatone	0.04%
<b>TOTAL</b>	<b>99.44%</b>