

## CERTIFICATE OF ANALYSIS

Organic Essential Oil of Olibanum from Somalia  
100% pure and natural

Botanical name :	<i>Boswellia carteri</i> Birdw. (syn: <i>Boswellia sacra</i> Flueck.)
Commercial name :	Organic Olibanum
Batch number :	<b>2200393</b>
Geographical origin :	Somalia
Production date :	April 2021

### Physical and chemical data :

	Standards	Results of analysis
<b>Appearance</b>	Liquid	Conform
<b>Colour</b>	Colourless to yellow	Conform
<b>Odour</b>	Characteristic, warm, balsamic, rising	Conform
<b>Specific gravity at 20°C</b>	0.850 to 0.895	0.8637
<b>Refractive index at 20°C</b>	1.450 to 1.485	1.4582
<b>Optical rotation at 20°C</b>	-25° to +20°	-7.98°
<b>Flash point</b>	+30°C to +45°C	

### Table of components (1) :

Components	Contents
$\alpha$ -thujene	4.38%
$\alpha$ -pinene	52.98%
Camphene	0.94%
Thuja-2,4(10)-diene	0.47%
Sabinene	3.22%
$\beta$ -pinene	2.36%
Myrcene	4.22%
$\alpha$ -phellandrene	1.92%
$\delta$ -3-carene	0.50%
$\alpha$ -terpinene	0.11%
Para-cymene	3.38%
Limonene	11.94%
$\beta$ -phellandrene	0.53%
Cineole-1,8 : Eucalyptol	0.42%
Cis- $\beta$ -ocimene	0.08%
$\gamma$ -terpinene	0.19%
Terpinolene	0.07%
Para-cymenene	0.13%
Perillene	0.06%

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

Components	Contents
Linalool	0.09%
Trans-thujone	0.12%
$\alpha$ -campholenal	0.30%
Trans-pinocarveol	0.79%
Trans-verbenol	0.89%
Para-mentha-1,5-dien-8-ol	0.15%
Umbellulone	0.03%
Terpinene-4-ol	0.48%
Myrtenal	0.32%
Octyl Acetate	1.14%
Verbenone	0.49%
Carvone	0.13%
Bornyl Acetate	0.27%
Thymol	0.02%
$\alpha$ -Terpenyle Acetate	0.04%
$\alpha$ -cubebene	0.05%
$\alpha$ -copaene	0.27%
$\beta$ -bourbonene	0.11%
$\beta$ -elemene	0.27%
$\beta$ -caryophyllene	1.14%
$\alpha$ -trans-bergamotene	0.06%
$\alpha$ -humulene	0.25%
Allo-aromadendrene	0.07%
$\gamma$ -muurolene	0.10%
Germacrene D	0.13%
$\beta$ -selinene	0.12%
$\alpha$ -muurolene	0.20%
$\gamma$ -cadinene	0.15%
$\delta$ -cadinene	0.35%
Caryophyllene Oxide	0.27%
Viridiflorol	0.07%
Epi- $\alpha$ -cadinol	0.13%
<b>TOTAL</b>	<b>97.03%</b>