

## CERTIFICATE OF ANALYSIS

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

Botanical name : *Boswellia carteri* Birdw. (syn: *Boswellia sacra* Flueck.)  
 Commercial name : Organic Olibanum  
 Batch number : 2100497  
 Geographical origin : Somalia  
 Production date : March 2022

Physical and chemical data :

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

Table of components (1) :

Components	Contents
$\alpha$ -thujene	6.29%
$\alpha$ -pinene	47.67%
Camphene	0.92%
Thuja-2,4(10)-diene	0.42%
Sabinene	3.93%
$\beta$ -pinene	1.94%
Myrcene	4.59%
$\alpha$ -phellandrene	2.03%
$\delta$ -3-carene	0.45%
$\alpha$ -terpinene	0.13%
Para-cymene	3.89%
Limonene	12.57%
$\beta$ -phellandrene	0.55%
Cineole-1,8 : Eucalyptol	0.19%
Cis- $\beta$ -ocimene	0.14%
$\gamma$ -terpinene	0.22%
Terpinolene	0.07%
Para-cymenene	0.13%
Perillene	0.06%

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

Components	Contents
Linalool	0.08%
Trans-thujone	0.17%
$\alpha$ -campholenal	0.27%
Trans-pinocarveol	0.79%
Trans-verbenol	0.98%
Para-mentha-1,5-dien-8-ol	0.15%
Umbellulone	0.03%
Terpinene-4-ol	0.57%
Myrtenal	0.24%
Octyl Acetate	1.33%
Verbenone	0.49%
Carvone	0.14%
Bornyl Acetate	0.27%
Thymol	0.02%
$\alpha$ -Terpenyle Acetate	0.04%
$\alpha$ -cubebene	0.10%
$\alpha$ -copaene	0.32%
$\beta$ -bourbonene	0.12%
$\beta$ -elemene	0.27%
$\beta$ -caryophyllene	1.27%
$\alpha$ -trans-bergamotene	0.05%
$\alpha$ -humulene	0.28%
Allo-aromadendrene	0.07%
$\gamma$ -muurolene	0.12%
Germacrene D	0.16%
$\beta$ -selinene	0.13%
$\alpha$ -muurolene	0.02%
$\gamma$ -cadinene	0.18%
$\delta$ -cadinene	0.41%
Caryophyllene Oxide	0.32%
Viridiflorol	0.09%
Epi- $\alpha$ -cadinol	0.15%
<b>TOTAL</b>	<b>95.82%</b>