

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 :	2100497
Geographical origin :	Somalia
Production date :	March 2021

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
α -thujene	6.29%
α -pinene	47.67%
Camphene	0.92%
Thuja-2,4(10)-diene	0.42%
Sabinene	3.93%
β -pinene	1.94%
Myrcene	4.59%
α -phellandrene	2.03%
δ -3-carene	0.45%
α -terpinene	0.13%
Para-cymene	3.89%
Limonene	12.57%
β -phellandrene	0.55%
Cineole-1,8 : Eucalyptol	0.19%
Cis- β -ocimene	0.14%
γ -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%
α -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%
α -Terpenyle Acetate	0.04%
α -cubebene	0.10%
α -copaene	0.32%
β -bourbonene	0.12%
β -elemene	0.27%
β -caryophyllene	1.27%
α -trans-bergamotene	0.05%
α -humulene	0.28%
Allo-aromadendrene	0.07%
γ -muurolene	0.12%
Germacrene D	0.16%
β -selinene	0.13%
α -muurolene	0.02%
γ -cadinene	0.18%
δ -cadinene	0.41%
Caryophyllene Oxide	0.32%
Viridiflorol	0.09%
Epi- α -cadinol	0.15%
TOTAL	95.82%