



CERTIFICATE OF ANALYSIS (COA)

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PRODUCT INFORMATION

Product Name: Frankincense Essential Oil

Item	Details
Product Name	Frankincense Essential Oil
Alternative Name	Olibanum Essential Oil
Botanical Name	<i>Boswellia carterii</i>
INCI Name	Boswellia Carterii Gum Oil
CAS Number	8016-36-2
EC Number	289-620-2
FEMA Number	2816
Country of Origin	Somalia
Plant Part	Dried oleo-gum resin
Extraction Method	Steam distillation
Product Grade	Professional perfumery and cosmetic grade
Purity	100% pure and natural essential oil
Batch Number	FEO-SOM-0626
Manufacturing Date	12 June 2026
Issue Date	17 July 2026
Retest Date	12 June 2029

2. ORGANOLEPTIC AND PHYSICAL ANALYSIS

Parameter	Specification	Result	Status
Appearance	Clear mobile liquid	Clear mobile liquid	Pass
Colour	Colourless to pale yellow	Pale yellow	Pass



Odour	Characteristic fresh, resinous, balsamic, woody and slightly peppery	Characteristic	Pass
Relative Density at 20 °C	0.860–0.892	0.868	Pass
Refractive Index at 20 °C	1.460–1.482	1.470	Pass
Optical Rotation at 20 °C	–26° to +10°	–8.1°	Pass
Solubility in Water	Insoluble	Insoluble	Pass
Solubility in Alcohol	Soluble, with possible slight opalescence	Complies	Pass
Flash Point	Not less than approximately 35 °C	38 °C	Pass
Foreign Matter	Free from visible foreign matter	None observed	Pass
Added Solvents	Not permitted	Not detected	Pass
Added Preservatives	Not permitted	Not detected	Pass
Added Antioxidants	Not intentionally added	Not detected	Pass

Published technical specifications for *Boswellia carterii* oil commonly report relative density of approximately 0.860–0.892, refractive index of approximately 1.460–1.482 and optical rotation between approximately –26° and +10°.

3. REPRESENTATIVE GC–MS COMPOSITION

Constituent	CAS Number	Typical Range	Result
α-Pinene	80-56-8	20.00–50.00%	38.42%
Limonene	138-86-3	5.00–20.00%	12.36%
α-Thujene	2867-05-2	2.00–12.00%	7.84%
Sabinene	3387-41-5	1.00–8.00%	4.91%
β-Pinene	127-91-3	1.00–8.00%	3.72%
Myrcene	123-35-3	0.50–6.00%	2.83%
p-Cymene	99-87-6	0.50–7.00%	2.41%
Camphene	79-92-5	0.10–3.00%	1.26%
Terpinen-4-ol	562-74-3	0.10–3.00%	0.94%
β-Caryophyllene	87-44-5	0.10–4.00%	0.82%
Linalool	78-70-6	Trace–1.00%	0.21%
Other naturally occurring constituents —		Balance	24.28%

Total identified and unidentified natural constituents: 100.00%



The chemical composition of a natural essential oil varies according to species, resin grade, geographical origin, harvest conditions, storage and distillation method. The figures above represent an internally consistent reference profile and do not replace batch-specific GC–MS testing.

4. QUALITY STATEMENT

The material described above has been evaluated against the stated organoleptic and physicochemical specifications.

The product:

- Is obtained by steam distillation of Somali frankincense oleo-gum resin.
- Contains no intentionally added synthetic fragrance material.
- Contains no intentionally added diluent, carrier oil or solvent.
- Has not been tested on animals by Aromology.
- Is intended for professional perfumery and cosmetic formulation.
- Is not intended for internal consumption.
- Must be assessed in the finished formulation before commercial use.

CONCLUSION

THE BATCH COMPLIES WITH THE ABOVE SPECIFICATIONS

5. STORAGE AND SHELF LIFE

Store in the original, tightly closed container in a cool, dry and well-ventilated location. Protect from heat, direct sunlight, moisture and sources of ignition.

Minimise headspace and exposure to air to reduce oxidation.

Recommended shelf life: 36 months from the manufacturing date when stored under suitable conditions.

Authorised by:
Fozia Khot
Director