



CERTIFICATE OF ANALYSIS (COA)

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PRODUCT IDENTIFICATION

Parameter	Details
Product Name	Oakmoss Absolute Low Atranol 50% TEC
Botanical Source	<i>Evernia prunastri</i> (L.) Ach.
INCI Description	Evernia Prunastri Extract, Triethyl Citrate
Alternative Oakmoss CAS Numbers	90028-68-5
Oakmoss EC Number	289-861-3
Diluent	Triethyl Citrate
Triethyl Citrate CAS Number	77-93-0
Triethyl Citrate EC Number	201-070-7
Composition	50% Low-Atranol Oakmoss Absolute in 50% Triethyl Citrate
Product Type	Natural Complex Substance in perfumery diluent
Batch Number	OAK-LA50-2607

COMPOSITION

Component	Specification
Low-Atranol Oakmoss Absolute	49.0–51.0%
Triethyl Citrate	49.0–51.0%
Added Treemoss Extract	None
Added Synthetic Fragrance	None

ORGANOLEPTIC ANALYSIS

Test	Specification	Representative Result
Appearance	Clear to slightly hazy viscous liquid	Conforms



Test	Specification	Representative Result
Colour	Pale yellow to amber-brown	Conforms
Odour	Characteristic mossy, earthy, woody, leathery and forest-like	Conforms
Odour Strength	Strong and persistent	Conforms
Foreign Matter	Absent	Conforms

PHYSICO-CHEMICAL ANALYSIS

Test	Representative Specification	Representative Result
Relative Density at 20°C	1.080–1.130	1.104
Refractive Index at 20°C	1.455–1.490	1.472
Acid Value	Maximum 18.0 mg KOH/g	9.8 mg KOH/g
Water Content	Maximum 0.50%	0.16%
Solubility in Ethanol	Soluble; slight opalescence permitted	Conforms
Flash Point	Above 100°C	Conforms
Identity	Corresponds to approved reference	Conforms
Oakmoss Content	49.0–51.0%	Representative conformity
Triethyl Citrate Content	49.0–51.0%	Representative conformity

IFRA-CRITICAL SPECIFICATION

The IFRA Oakmoss Extract Standard requires the undiluted oakmoss extract to contain:

- Less than 100 ppm atranol
- Less than 100 ppm chloroatranol
- Not more than 0.1% dehydroabietic acid
- No added treemoss extract

Because this product contains 50% oakmoss extract, the corresponding theoretical limits in the supplied dilution are:

Analyte	Limit in Undiluted Oakmoss	Equivalent Limit in 50% TEC Product	Status
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Analyte	Limit in Undiluted Oakmoss	Equivalent Limit in 50% TEC Product	Status
Atranol	Below 100 ppm	Below 50 ppm	Pending batch confirmation
Chloroatranol	Below 100 ppm	Below 50 ppm	Pending batch confirmation
Dehydroabietic Acid	Maximum 0.10%	Maximum 0.05%	Pending batch confirmation
Added Treemoss Extract	None	None	None intentionally added

PURITY AND QUALITY STATUS

Assessment	Status
Low-Atranol Oakmoss Grade	Declared
Dilution Strength	50% in TEC
Added Treemoss	None intentionally added
Added Preservative	None
Added Artificial Colour	None
Added Carrier Other Than TEC	None
Animal-Derived Material	None
BSE/TSE Risk	Not applicable
GMO Material	Not intentionally used

STORAGE

Store:

- In tightly sealed original containers
- At 5–25 °C
- Protected from direct sunlight, heat and moisture
- Away from strong oxidising agents
- With minimum container headspace where practical

Mix or gently warm the closed container if separation or increased viscosity occurs. Avoid excessive heating.

SHELF LIFE



24 months from the manufacturing date when stored unopened under the recommended conditions.

CONCLUSION

The representative organoleptic and physicochemical values conform to Aromology Trading LLC's working specification for:

Oakmoss Absolute Low Atranol 50% TEC

A definitive claim for atranol, chloroatranol and dehydroabietic acid requires the original batch-specific analytical report. The values in this certificate are representative commercial specifications and must not be presented as independently measured batch results.

AUTHORISED BY

Fozia Khot

Director

Aromology Trading LLC