



CERTIFICATE OF ANALYSIS (COA)

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PRODUCT INFORMATION

Parameter	Details
Product Name	Premium Patchouli Essential Oil
Botanical Name	<i>Pogostemon cablin</i> (Blanco) Benth.
INCI Name	Pogostemon Cablin Leaf Oil
Plant Part	Dried Leaves
Extraction Method	Steam Distillation / Light-Grade Processing
Product Type	100% Natural Essential Oil
Country of Origin	Indonesia
CAS Number	8014-09-3
EC Number	282-493-4
FEMA Number	2838
Batch Number	PEOL-260724

ORGANOLEPTIC CHARACTERISTICS

Test	Specification	Result
Appearance	Clear mobile to slightly viscous liquid	Conforms
Colour	Pale yellow to light amber	Conforms
Odour	Clean, woody, earthy, smooth and softly herbaceous patchouli	Conforms
Odour Strength	Strong and characteristic	Conforms
Foreign Matter	Free from visible foreign matter	Conforms
Sediment	None or slight natural sediment	Conforms

PHYSICO-CHEMICAL ANALYSIS

Test	Specification	Representative Result
Relative Density at 20–25 °C	0.950–0.975	0.963
Refractive Index at 20 °C	1.505–1.515	1.509
Optical Rotation at 20 °C	–60.0° to –45.0°	–52.6°



Flash Point	Approximately 100°C or higher	>100°C
Acid Value	≤5.0 mg KOH/g	1.5 mg KOH/g
Peroxide Value	≤10.0 meq O ₂ /kg	2.8 meq O ₂ /kg
Solubility in Water	Insoluble	Conforms
Solubility in Ethanol	Soluble to partly soluble	Conforms
Solubility in Perfumery Solvents	Soluble	Conforms

REPRESENTATIVE GC/MS PROFILE

Constituent	Representative Range
Patchouli Alcohol / Patchoulol	20.0–38.0%
α-Bulnesene	10.0–22.0%
α-Guaiene	8.0–20.0%
Seychellene	3.0–10.0%
β-Patchoulene	1.0–6.0%
Pogostol	0.5–4.0%
Caryophyllene	Trace–5.0%
Norpatchoulenol	Trace–2.0%
Other Naturally Occurring Sesquiterpenes	Balance

The light grade may contain a lower proportion of heavy constituents than conventional or dark Patchouli Essential Oil. The exact chromatographic profile is batch dependent.

QUALITY AND PURITY ASSESSMENT

Assessment	Status
Botanical Identification	Conforms
Organoleptic Identification	Conforms
Physicochemical Properties	Conforms
GC/MS Identification	Conforms
Added Synthetic Fragrance	None Declared
Added Carrier Oil	None Declared
Added Colour	None Declared
Added Preservatives	None Declared
Animal-Derived Ingredients	None
GMO-Derived Ingredients	Not Intentionally Added
Professional Perfumery Grade	Conforms
Overall Assessment	Approved

LIGHT-GRADE DECLARATION



Premium Patchouli Essential Oil – Light is processed or selected to exhibit:

- A lighter colour;
- A cleaner and fresher olfactory profile;
- Reduced heavy, smoky or fermented facets;
- A smoother woody character; and
- Improved versatility in fine-fragrance applications.

The light-grade designation does not indicate dilution or the addition of carrier materials.

STORAGE CONDITIONS

Store:

- In tightly closed, compatible containers;
- Preferably between 5 °C and 25 °C;
- In a cool, dry and well-ventilated area;
- Protected from direct sunlight;
- Protected from excessive heat and moisture;
- Away from strong oxidising agents;
- Away from strong acids and alkalis; and
- With minimum container headspace after opening.

SHELF LIFE

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

IMPORTANT NOTICE

This Certificate of Analysis contains representative specifications for a natural Patchouli Essential Oil light grade.

Natural variation may occur due to:

- Geographical source;
- Harvest season;
- Plant maturity;
- Leaf fermentation and drying;
- Distillation conditions;
- Fractionation or light-grade processing;
- Storage conditions; and
- Batch-specific botanical variation.



The original producer's batch-specific Certificate of Analysis and analytical results shall take precedence where available.

CONCLUSION

The representative batch of Premium Patchouli Essential Oil complies with the stated organoleptic, physicochemical and quality specifications for professional perfumery and cosmetic fragrance use.

AUTHORISED BY

Fozia Khot

Director

Aromology Trading LLC