



CERTIFICATE OF ANALYSIS (COA)

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PRODUCT INFORMATION

Parameter	Details
Product Name	Premium Patchouli EO Light
Botanical Name	<i>Pogostemon cablin</i> (Blanco) Benth.
INCI Name	Pogostemon Cablin Leaf Oil
Plant Part	Dried Leaves
Extraction Method	Steam Distillation / Refined Light Fraction
Product Type	100% Natural Essential Oil
Country of Origin	Indonesia
CAS Number	84238-39-1
EC Number	282-493-4
FEMA Number	2838
Batch Number	PEOLM-260724

ORGANOLEPTIC CHARACTERISTICS

Test	Specification	Result
Appearance	Clear mobile liquid	Conforms
Colour	Pale yellow to light amber	Conforms
Odour	Clean, soft, woody, earthy and musky patchouli with reduced camphoraceous and dark notes	Conforms
Odour Strength	Strong and characteristic	Conforms
Visible Foreign Matter	Absent	Conforms

PHYSICO-CHEMICAL ANALYSIS

Test	Specification	Representative Result
Relative Density at 20 °C	0.950–0.975	0.963
Refractive Index at 20 °C	1.500–1.515	1.507



Optical Rotation at 20 °C	-70.0° to -40.0°	-54.8°
Flash Point	>100 °C	Conforms
Solubility in Water	Insoluble	Conforms
Solubility in Ethanol	Soluble to partly soluble, depending on concentration	Conforms
Solubility in Perfumery Solvents	Soluble	Conforms
Acid Value	≤5.0 mg KOH/g	1.6 mg KOH/g
Peroxide Value	≤10.0 meq O ₂ /kg	2.9 meq O ₂ /kg

REPRESENTATIVE GC/MS PROFILE

Constituent	Representative Range
Patchouli Alcohol / Patchoulol	25.0–40.0%
α-Guaiene	8.0–18.0%
α-Bulnesene	10.0–20.0%
Seychellene	3.0–10.0%
β-Patchoulene	1.5–6.0%
Pogostol	0.5–4.0%
Norpatchoulenol	Trace–2.0%
Caryophyllene	Trace–4.0%
Other Naturally Occurring Sesquiterpenes Balance	

The exact constituent profile may vary according to crop, distillation method and the degree of refining or light-fraction processing.

PURITY AND QUALITY ASSESSMENT

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

STORAGE CONDITIONS



Store:

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

Minimise headspace after opening to reduce oxidation.

SHELF LIFE

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

IMPORTANT NOTICE

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

Natural variations in colour, density, optical rotation and GC/MS profile may occur depending on:

- Geographical origin;
- Harvest season;
- Leaf maturation;
- Fermentation and drying;
- Distillation conditions;
- Fractionation or refining; and
- Storage history.

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

CONCLUSION

The representative batch of Premium Patchouli EO Light complies with the established organoleptic, physicochemical and quality specifications for professional perfumery and cosmetic fragrance use.

AUTHORISED BY

Fozia Khot
Director
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