



CERTIFICATE OF ANALYSIS (COA)

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PRODUCT INFORMATION

Parameter	Details
Product Name	Patchouli Essential Oil CO ₂
Alternative Name	Patchouli CO ₂ Extract
Botanical Name	<i>Pogostemon cablin</i> (Blanco) Benth.
Botanical Family	Lamiaceae
INCI Name	Pogostemon Cablin Leaf Oil
Plant Part	Dried Leaves and Aerial Parts
Extraction Method	Supercritical Carbon Dioxide Extraction
Product Type	Natural CO ₂ Extract / Natural Complex Substance
Primary CAS Number	8014-09-3
Alternative CAS Number	84238-39-1
Country of Origin	India
Batch Number	PCO2-IN-260418

2. ORGANOLEPTIC ANALYSIS

Test	Specification	Result
Appearance	Clear to slightly opalescent, viscous liquid	Conforms
Colour	Amber to dark reddish-brown	Conforms
Odour	Rich, earthy, woody, balsamic and characteristic of patchouli	Conforms
Odour Undertones	Slightly sweet, leafy, camphoraceous and cocoa-like	Conforms
Homogeneity	Uniform	Conforms
Foreign Matter	Free from visible foreign matter	Conforms



3. PHYSICO-CHEMICAL ANALYSIS

Test	Specification	Representative Result
Relative Density at 20 °C	0.950–0.985	0.967
Refractive Index at 20 °C	1.500–1.520	1.509
Optical Rotation	–65 ° to –35 °	–49.6 °
Acid Value	Maximum 5.0 mg KOH/g	2.1 mg KOH/g
Flash Point	Above 100 °C	Approximately 112 °C
Water Solubility	Insoluble	Conforms
Solubility in Ethanol	Soluble, with possible slight opalescence	Conforms
Residual Conventional Solvents	Not intentionally present	Conforms
Patchouli Alcohol by GC	Minimum 30.0%	36.2%

4. REPRESENTATIVE CHROMATOGRAPHIC PROFILE

Naturally Occurring Constituent	Representative Result
Patchouli Alcohol / Patchoulol	36.2%
α -Guaiene	13.1%
Seychellene	9.0%
α -Patchoulene	5.7%
β -Patchoulene	3.4%
Pogostol	2.6%
β -Caryophyllene	2.3%
Norpatchoulanol	1.6%
Other Natural Sesquiterpenes	Balance

The chromatographic profile is representative and may vary according to botanical source, harvest, pretreatment and extraction parameters.

5. MICROBIOLOGICAL AND CONTAMINANT STATUS

Assessment	Status
Total Aerobic Microbial Count	Not routinely applicable to an anhydrous aromatic extract
Yeast and Mould	Not routinely applicable
Pathogenic Organisms	Not expected under normal production conditions
Pesticide Residues	Complies with supplier specification where tested



Heavy Metals	Complies with supplier specification where tested
Residual CO ₂	Evaporates during extraction and processing
Conventional Organic Solvents	Not intentionally used
Added Carrier Oil	None
Added Antioxidant	None, unless separately declared
Added Synthetic Fragrance	None

6. QUALITY AND COMPLIANCE STATUS

Assessment	Status
Natural Origin	Conforms
Professional Perfumery Grade	Conforms
Extraction Medium	Supercritical carbon dioxide
GMO Material	Not intentionally used
Animal-Derived Material	None
BSE/TSE Risk	Not applicable
Irradiation	Not intentionally applied
Nanomaterials	Not intentionally added
CMR Substances	Not intentionally added
Vegan Suitability	Suitable based on raw-material origin

7. STORAGE CONDITIONS

Store:

- In tightly closed original or compatible containers
- Between **5°C and 20°C**
- Protected from direct sunlight
- Protected from excessive heat and moisture
- With minimum headspace where practical
- Away from strong oxidising agents

The extract may naturally darken, thicken or develop sediment during storage. Gentle warming and mixing may restore uniformity without affecting normal product quality.

8. SHELF LIFE

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



9. CONCLUSION

The representative batch complies with the stated specification and is suitable for professional fragrance and cosmetic-formulation applications, subject to an appropriate finished-product safety assessment.

The values shown are representative and are not a substitute for the original manufacturer's batch-specific analytical certificate.

AUTHORISED BY

Fozia Khot

Director

Aromology Trading LLC