

Certificate of Analysis

Report Reference: SIG/GC-2026/PAT/0041

Test Date: 2026-02-22

Sample: Patchouli Essential Oil (Pogostemon cablin)

Client: BridgeTrace / Koivu Ventures Pte. Ltd.

Physical Properties

Appearance Dark amber, viscous liquid
Odour Rich, earthy, woody, camphoraceous
Specific gravity (20°C) 0.957
Refractive index (20°C) 1.5075
Optical rotation (20°C) -52.3°
Solubility Soluble in 90% ethanol (1:10)
Flash point 112°C
Acid value 1.8 mg KOH/g
Ester value 4.2 mg KOH/g

Heavy Metals (EC 1223/2009)

Lead (Pb) < 0.5 mg/kg Limit: < 10 mg/kg PASS
Arsenic (As) < 0.1 mg/kg Limit: < 3 mg/kg PASS
Mercury (Hg) < 0.02 mg/kg Limit: < 1 mg/kg PASS
Cadmium (Cd) < 0.05 mg/kg Limit: < 1 mg/kg PASS
Method: ICP-OES

Allergen Screening (EU 2023/1545)

Eugenol Not detected Threshold: 0.001%
Coumarin 0.003% Below threshold
Linalool Not detected Threshold: 0.001%
Geraniol Not detected Threshold: 0.001%
Isoeugenol Not detected Threshold: 0.001%
Benzyl benzoate 0.008% Below threshold
Benzyl alcohol Not detected Threshold: 0.001%
Farnesol 0.012% Below threshold
Cinnamal Not detected Threshold: 0.001%
Citral Not detected Threshold: 0.001%
Screened for 10 fragrance allergens per EU 2023/1545.