



CERTIFICATE OF ANALYSIS (COA)

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Premium Patchouli Essential Oil

PRODUCT INFORMATION

Product Name: Premium Patchouli Essential Oil
Botanical Name: *Pogostemon cablin*
INCI Name: POGOSTEMON CABLIN LEAF OIL
CAS Number: 84238-39-1 / 8014-09-3
Plant Part Used: Leaves and Twigs
Extraction Method: Steam Distillation followed by Single-Stage Molecular Distillation
Country of Origin: Indonesia
Product Type: Natural Essential Oil / Perfumery Raw Material

BATCH INFORMATION

Lot Number: 26010117-6
Manufacturing Date: 13 January 2026
Best Before Date: 12 January 2028
Date of Analysis: 13 January 2026

According to the original certificate, the volatile oil is obtained by steam distillation of dried Patchouli leaves and twigs, followed by removal of iron through single-stage molecular distillation.

ANALYTICAL RESULTS

Test	Unit	Specification	Result
Visual Description	—	Yellow to Brown Clear Liquid	Complies with Standard
Odour Evaluation	—	Comparable to Standard	Complies with Standard
Refractive Index @ 20 °C	—	1.5040 – 1.5150	1.5082
Specific Gravity @ 25 °C	—	0.9550 – 0.9650	0.9559
Optical Rotation @ 25 °C	°	-52.00 to -47.00	-48.76



Test	Unit	Specification	Result
Acid Value	mg KOH/g	3.20 – 7.00	4.72
Iron Content	Qualitative Test	Maximum 5	Negative
Relative Density @ 20 °C	—	0.9410 – 0.9830	0.9578
Optical Rotation @ 20 °C	°	-66.0 to -40.0	-48.69
Peroxide Value	meq O ₂ /kg	Maximum 20.0	12.10
Colour Value – L	—	78.00 – 90.00	81.96
Colour Value – a	—	-10.00 – 18.00	3.15
Colour Value – b	—	62.00 – 90.00	81.21

TEST METHODS

Refractive Index: ISO 280:1998

Specific Gravity: ISO 279:1998

Optical Rotation: ISO 592

Acid Value: ISO 1242

Peroxide Value: ISO 18321:2015

COMPOSITION / GC ASSAY

Component	Molecular Class	Specification (%)	Assay Result (%)
Eugenol	Phenylpropanoid	Max. 0.02	0.01
Patchouli Alcohol	Sesquiterpene Alcohol	27.00 – 35.00	30.71
Pogostol	Sesquiterpene Alcohol	1.00 – 2.50	2.14
α-Guaiene	Sesquiterpene	11.00 – 16.00	14.20
nor-Patchoulanol	Norsesquiterpene Alcohol	0.35 – 1.00	0.59
β-Patchoulene	Sesquiterpene	1.80 – 3.50	2.95
β-Caryophyllene	Sesquiterpene	2.00 – 5.00	3.46
Bulnesene / Guaiene, δ	Sesquiterpene	13.00 – 21.00	19.82
Diethyl Phthalate (DOP)	Phthalate Ester	0.00	0.00
Diethyl Phthalate (DEP)	Phthalate Ester	0.00	0.00
Dibutyl Phthalate (DBP)	Phthalate Ester	0.00	0.00
α-Copaene	Sesquiterpene	Max. 1.00	0.23

These values are transcribed from the component assay on page 2 of the original certificate.

KEY CONSTITUENT PROFILE

Patchouli Alcohol: 30.71%

Pogostol: 2.14%

α-Guaiene: 14.20%



nor-Patchoulenol: 0.59%
β-Patchoulene: 2.95%
β-Caryophyllene: 3.46%
Bulnesene / δ-Guaiene: 19.82%
α-Copaene: 0.23%
Eugenol: 0.01%

PHTHALATE STATUS

The batch-specific analytical results report:

Phthalate	Result
Diethyl Phthalate (DEP)	0.00%
Diethyl Phthalate (DEP)	0.00%
Dibutyl Phthalate (DBP)	0.00%

Based on the analytical results reported by the original manufacturer, DEP, DEP and DBP were not detected/reported above 0.00% in this batch.

ORGANOLEPTIC AND PHYSICAL PROFILE

Appearance: Yellow to Brown Clear Liquid
Odour: Comparable to Standard / Characteristic Patchouli
Olfactive Profile: Woody • Musky • Amber • Greeny
Patchouli Alcohol Content: 30.71%

QUALITY CONCLUSION

The analytical results reported for Lot 26010117-6 comply with the specifications stated in the original Certificate of Analysis.

The material is therefore certified as conforming to the stated quality parameters for:

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DISCLAIMER



This Certificate of Analysis has been prepared in Aromology format using the batch-specific analytical information contained in the original manufacturer Certificate of Analysis for Premium Patchouli Essential Oil- Light, Lot 26010117-6.

The original certificate also states that its scope is limited to testing conducted by the manufacturer and does not relieve the customer/buyer from conducting its own testing to establish suitability for its intended application and compliance with applicable end-product regulatory requirements.

Authorised by:

Fozia Khot
Director