

PT. SEPAKAT MULTI NIAGA

Jalan Lintas Krueng Mane-Sawang No.01, Muara Batu, Aceh Utara, Indonesia, 24355

Hotline: (+62) 811 684 2202

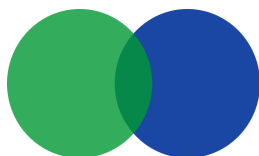
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CERTIFICATE OF ANALYSIS (COA)

Product : Pure Patchouli Oil (Pogostemon cablin) - Origin Sulawesi, Indonesia
CAS No. : 8014-09-3 (Essential Oil)
EINECS : 283-198-1
HS Code : 3301.29
Batch/Lot No. : 020825
Manufacturing Date : August - 2025
Expiry/Shelf Life : 36 months from manufacturing date (in unopened original packaging)
Net Volume : 100mL
Country of Origin : Indonesia (Sulawesi)
Supplier/Manufacturer : PT. Sepakat Multi Niaga

1. Sensory & Physical Properties

Parameter	Test Method	Specification	Result	Status
Appearance	Visual, 25 °C	Thick liquid, clear, yellow to amber	Thick liquid, clear, yellow to amber	Pass
Odor	Panel	Characteristic patchouli: earthy, woody, sweet, persistent	Characteristic patchouli: earthy, woody, sweet, persistent	Pass
Color	Gardner	8 – 12	10	Pass
Specific Gravity @20/20 °C	ASTM D4052	0.950 – 0.975	0.963	Pass
Refractive Index @20 °C	ISO 6320	1.505 – 1.515	1.510	Pass
Optical Rotation @20 °C	ISO 5920	-44° – -65°	-52.3°	Pass
Flash Point (Closed Cup)	ASTM D93	≥ 100 °C	104 °C	Pass
Solubility in 95% Ethanol 1:5	In-house	Clear solution, free of turbidity	Clear solution, free of turbidity	Pass



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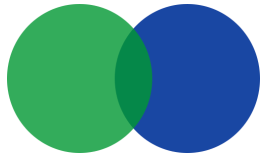
2. Chemical Properties

Parameter	Test Method	Specification	Result	Status
Patchouli Alcohol (Patchoulol) by GC-FID	In-house (ISO 11024-2)	≥ 30.0%	33.8%	Pass
α-Guaiene (GC)	GC-FID	12.0 – 20.0%	15.4%	Pass
α-Bulnesene (GC)	GC-FID	12.0 – 22.0%	17.8%	Pass
Seychellene (GC)	GC-FID	1.0 – 6.0%	3.2%	Pass
Pogostol (GC)	GC-FID	0.5 – 4.0%	2.1%	Pass
Acid Value	AOCS Cd 3d-63	≤ 5.0 mg KOH/g	01.08	Pass
Ester Value	AOCS Cd 3-25	≤ 20.0 mg KOH/g	07.02	Pass
Peroxide Value	AOCS Cd 8b-90	≤ 5.0 meq O ₂ /kg	00.05	Pass
Residual Solvents	GC-MS	Not detected (<10 ppm)	ND	Pass

3. Contaminants & Safety

Parameter	Test Method	Specification	Result	Status
Lead (Pb)	ICP-MS	≤ 10 ppm	ND (<1 ppm)	Pass
Arsenic (As)	ICP-MS	≤ 2 ppm	ND (<0.2 ppm)	Pass
Mercury (Hg)	ICP-MS	≤ 1 ppm	ND (<0.1 ppm)	Pass
Cadmium (Cd)	ICP-MS	≤ 1 ppm	ND (<0.1 ppm)	Pass
Pesticide Residues (screen)	GC-MS/MS	In compliance; not detected	ND	Pass
PAHs (Benzo[a]pyrene)	HPLC	≤ 2.0 ppb	ND	Pass
Microbiology	ISO 17516	Not applicable (essential oil)	NA	Conforms

Note: The above test results are actual values for this batch and fall within the general specification range for Pure Patchouli Oil from Sulawesi. Specifications may vary slightly depending on harvest and distillation process.



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Compliance & Declarations

- **IFRA:** This product complies with IFRA standards applicable to its use in relevant fragrance categories; final formulations must be separately evaluated by a safety assessor.
- **GMO:** This product does not contain genetically modified organisms (Non-GMO).
- **Allergen:** Contains natural allergens inherent to essential oils in trace amounts; a detailed allergen list can be provided upon request based on GC profiling.
- **Cruelty-Free:** Not tested on animals.
- **Vegan:** Does not contain animal-derived ingredients.
- **BSE/TSE:** Free from BSE/TSE risk.

Storage & Handling

Store in tightly closed, full containers with minimal headspace, away from heat and direct light, at 10–25 °C. It is recommended to use inert gas (nitrogen) for headspace. Shake before use.

Conclusion

The above Patchouli Oil sample complies with the required specifications and is suitable for export and commercial use in perfumery and cosmetics.

Disclaimer: The information contained in this Certificate of Analysis is obtained from current and reliable sources and is provided in good faith. Tested batches may vary slightly between each Certificate of Analysis produced, but each batch will meet the required specifications. Please note that this COA is based on internal testing conducted independently by our in-house expert team as part of the early sampling process. Upon actual supply, a confirmatory analysis will be conducted at a certified and more credible laboratory to ensure accuracy and compliance.

