



## CERTIFICATE OF ANALYSIS (COA)

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### PRODUCT INFORMATION

| Parameter              | Details                                  |
|------------------------|------------------------------------------|
| Product Name           | Patchouli Oil                            |
| Botanical Name         | <i>Pogostemon cablin</i> (Blanco) Benth. |
| INCI Name              | Pogostemon Cablin Leaf Oil               |
| Product Type           | Natural Essential Oil                    |
| Grade                  | Iron Free – PA30                         |
| Plant Part             | Leaves                                   |
| Extraction Method      | Steam Distillation                       |
| Primary CAS Number     | 8014-09-3                                |
| Alternative CAS Number | 84238-39-1                               |
| EC Number              | 282-493-4                                |
| Country of Origin      | Indonesia (Sulawesi)                     |
| Batch Number           | PIF-260419                               |

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### ORGANOLEPTIC ANALYSIS

| Test           | Specification                                 | Result   |
|----------------|-----------------------------------------------|----------|
| Appearance     | Clear viscous liquid                          | Conforms |
| Colour         | Pale amber to light amber                     | Conforms |
| Odour          | Rich earthy, woody, sweet, balsamic patchouli | Conforms |
| Clarity        | Clear when warmed                             | Conforms |
| Foreign Matter | None visible                                  | Conforms |

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### PHYSICO-CHEMICAL ANALYSIS



| Test                     | Specification | Representative Result |
|--------------------------|---------------|-----------------------|
| Relative Density (20 °C) | 0.955–0.975   | 0.963                 |
| Refractive Index (20 °C) | 1.505–1.515   | 1.5086                |
| Optical Rotation         | –60° to –45°  | –51.8°                |
| Acid Value               | ≤8.0 mg KOH/g | 2.3 mg KOH/g          |
| Flash Point              | >100 °C       | 111 °C                |
| Patchouli Alcohol (GC)   | Minimum 30.0% | 32.9%                 |
| Iron Content             | ≤1 ppm        | 0.4 ppm               |

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#### REPRESENTATIVE GC PROFILE

| Constituent       | Representative Result |
|-------------------|-----------------------|
| Patchouli Alcohol | 32.9%                 |
| α-Guaiene         | 13.4%                 |
| Seychellene       | 8.8%                  |
| α-Patchoulene     | 5.5%                  |
| β-Patchoulene     | 3.2%                  |
| Pogostol          | 2.5%                  |
| β-Caryophyllene   | 2.1%                  |

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#### QUALITY STATUS

| Assessment                   | Status                 |
|------------------------------|------------------------|
| Natural Origin               | Conforms               |
| Iron Free Grade              | Conforms               |
| Professional Perfumery Grade | Conforms               |
| Added Solvent                | None                   |
| Added Carrier Oil            | None                   |
| GMO                          | Not intentionally used |
| Animal Derived Material      | None                   |

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#### STORAGE

Store tightly closed between 5–20 °C, protected from air, heat and direct sunlight.

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## **SHELF LIFE**

24 months under recommended storage conditions.

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## **AUTHORISED BY**

Fozia Khot

Director

Aromology Trading LLC