

CERTIFICATE OF ANALYSIS

ROSE ABSOLUTE (RUH GULAB)

|                |                                          |                   |                       |
|----------------|------------------------------------------|-------------------|-----------------------|
| Product Name   | Rose Absolute (Ruh Gulab)                | Batch / Lot No.   | KAE/RABS/2526/041     |
| Botanical Name | Rosa damascena Mill.                     | Mfg. Date         | 05 May 2026           |
| CAS No.        | 8007-01-0 / 90106-38-0                   | Best Before       | 04 May 2031           |
| Plant Part     | Flower petals                            | Batch Quantity    | 5.00 kg               |
| Extraction     | Solvent extraction (concrete → absolute) | Country of Origin | India (Kannauj, U.P.) |
| Report Date    | 23 May 2026                              | Report No.        | KAE/COA/RABS/041      |

CONFORMS. This batch has been examined and complies with Kush Aroma Exports’ specification for Rose Absolute (Rosa damascena).

1. ORGANOLEPTIC CHARACTERISTICS

| Characteristic | Specification                                                                     | Result               |
|----------------|-----------------------------------------------------------------------------------|----------------------|
| Appearance     | Viscous liquid                                                                    | Complies             |
| Colour         | Reddish-orange to olive / brownish-yellow                                         | Reddish-orange       |
| Odour          | Deep, rich, sweet-floral, honey-like; characteristic of Rosa damascena; tenacious | Conforms to standard |

2. PHYSICOCHEMICAL PROPERTIES

| Parameter                 | Specification                                              | Result   | Method    |
|---------------------------|------------------------------------------------------------|----------|-----------|
| Relative density @ 20°C   | 0.955 – 0.995                                              | 0.972    | ISO 279   |
| Refractive index @ 20°C   | 1.495 – 1.520                                              | 1.508    | ISO 280   |
| Optical rotation @ 20°C   | −4°00’ to 0°00’                                            | −1°45’   | ISO 592   |
| Solubility (@ 20°C)       | Soluble in 95% ethanol (slight waxy turbidity permissible) | Complies | ISO 875   |
| Acid value                | NMT 12.0                                                   | 7.8      | ISO 1242  |
| Flash point               | > 100 °C                                                   | 112 °C   | Abel c.c. |
| Residual solvent (Hexane) | ≤ 10 ppm                                                   | < 5 ppm  | GC-MS     |
| Heavy metals (as Pb)      | ≤ 10 ppm                                                   | Complies | ICP-MS    |

3. KEY COMPOSITION (GC-FID)

| Constituent     | Typical % |
|-----------------|-----------|
| 2-Phenylethanol | 68.45     |
| Citronellol     | 10.20     |
| Geraniol        | 6.80      |
| Nerol           | 3.10      |
| Nonadecane      | 3.40      |

Full profile: refer to accompanying GC-MS Analysis report.

4. DECLARATIONS

- 100% natural and pure; no synthetic additives, diluents or carriers.
- Complies with current IFRA standards for the declared applications.
- Non-GMO; not tested on animals; free from added colourants.
- Free from detectable adulteration by GC-MS screening.
- Storage: keep tightly closed in a cool, dark place, protected from air and moisture.
- Shelf life: 60 months from date of manufacture under recommended storage.

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