



CERTIFICATE OF ANALYSIS (COA)

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PRODUCT INFORMATION

Item	Details
Product Name	Geranium Bourbon Organic Essential Oil
Alternative Names	Bourbon Geranium Oil, Organic Rose Geranium Essential Oil
Botanical Name	<i>Pelargonium graveolens</i> L'Hér.
Alternative Botanical Name	<i>Pelargonium asperum</i>
INCI Name	Pelargonium Graveolens Oil
CAS Number	8000-46-2
EC Number	290-140-0
FEMA Number	2508
Plant Part	Leaves and flowering aerial parts
Extraction Method	Steam distillation
Product Type	100% pure and natural essential oil
Organic Status	Produced from organically cultivated material; subject to valid batch certification
Country of Origin	Batch specific
Product Grade	Professional perfumery and cosmetic grade
Batch Number	GBO-ORG-0626
Manufacturing Date	12 June 2026
Issue Date	17 July 2026
Retest Date	12 June 2029

The identifiers CAS 90082-51-2, EC 290-140-0 and FEMA 2508 are commonly used for steam-distilled geranium oil obtained from *Pelargonium graveolens* or *Pelargonium asperum*.

2. ORGANOLEPTIC AND PHYSICOCHEMICAL ANALYSIS

Parameter	Specification	Representative Result	Status
Appearance	Clear, mobile liquid	Clear liquid	Pass
Colour	Pale yellow to yellow-green or greenish amber	Pale yellow-green	Pass
Odour	Strong, fresh, rosy, green, herbaceous and slightly minty	Characteristic	Pass
Relative Density at 20 °C	0.880–0.910	0.895	Pass
Refractive Index at 20 °C	1.460–1.480	1.469	Pass
Optical Rotation at 20 °C	–16.0° to –5.0°	–10.4°	Pass
Flash Point	Minimum 70 °C	78 °C	Pass
Acid Value	Maximum 3.0 mg KOH/g	1.1 mg KOH/g	Pass
Peroxide Value	Maximum 10.0 meq O ₂ /kg	2.7 meq O ₂ /kg	Pass
Solubility in Water	Insoluble	Insoluble	Pass
Solubility in Alcohol	Soluble or dispersible	Complies	Pass
Foreign Matter	Free from visible foreign matter	None observed	Pass
Added Solvents	Not permitted	Not detected	Pass
Added Carrier Oils	Not permitted	Not detected	Pass
Added Preservatives	Not permitted	Not detected	Pass
Purity	100% pure and natural essential oil	Complies	Pass

3. REPRESENTATIVE GC–MS COMPOSITION

Constituent	CAS Number	Typical Range	Representative Result
Citronellol	106-22-9	20.00–45.00%	31.80%
Geraniol	106-24-1	10.00–25.00%	17.40%
Citronellyl Formate	105-85-1	5.00–15.00%	9.10%
Isomenthone	491-07-6	4.00–12.00%	7.60%
Linalool	78-70-6	3.00–12.00%	6.20%
Geranyl Formate	105-86-2	2.00–8.00%	4.30%
Menthone	10458-14-7	1.00–6.00%	3.10%
Nerol	106-25-2	0.50–5.00%	2.20%
Citronellyl Tiglate	24717-85-9	Trace–4.00%	1.80%
Geranyl Acetate	105-87-3	Trace–3.00%	1.30%



Beta-Caryophyllene	87-44-5	Trace-2.00%	1.10%
Limonene	138-86-3	Trace-2.00%	0.90%
Alpha-Pinene	80-56-8	Trace-1.00%	0.35%
Beta-Pinene	127-91-3	Trace-1.00%	0.25%
Citral	5392-40-5	Trace-0.50%	0.20%
Eugenol	97-53-0	Trace-0.30%	0.08%
Other naturally occurring constituents	Various	Balance	12.32%
Total	—	—	100.00%

Citronellol, geraniol and linalool are recognised marker alcohols in geranium oil, while isomenthone and naturally occurring esters contribute to its characteristic Bourbon profile.

4. MICROBIOLOGICAL STATUS

As an anhydrous steam-distilled essential oil, the product does not normally support microbial growth.

Parameter	Specification	Result
Total Aerobic Microbial Count	Not routinely applicable	Conforms
Yeast and Mould	Not routinely applicable	Conforms
Pathogenic Microorganisms	Not expected under correct storage conditions	Conforms

5. ORGANIC STATUS

The product is described as organic subject to valid supporting documentation applicable to the producer and batch.

Organic documentation may include:

- Organic scope certificate
- Transaction certificate
- Certificate of inspection
- Supplier organic declaration
- Batch traceability records

This Certificate of Analysis does not independently grant or replace organic certification.

6. QUALITY AND PURITY DECLARATION

The material described above:

- Is obtained by steam distillation.



- Is 100% pure and natural essential oil.
- Contains no intentionally added synthetic fragrance material.
- Contains no intentionally added carrier oil or diluent.
- Contains no intentionally added colourant or preservative.
- Is suitable for professional perfumery and cosmetic formulation.
- Is not intended for internal consumption.
- Must be evaluated in the intended finished formulation before commercial use.

7. CONCLUSION

THE REPRESENTATIVE BATCH COMPLIES WITH THE ABOVE SPECIFICATIONS

8. STORAGE AND SHELF LIFE

Store in the original, tightly closed container in a cool, dry and well-ventilated place.

Protect from:

- Direct sunlight
- Excessive heat
- Air exposure
- Moisture
- Strong oxidising substances
- Sources of contamination

Minimise container headspace to reduce oxidation.

Recommended shelf life: 36 months from the manufacturing date when stored correctly.

9. DISCLAIMER

The values shown are representative specifications and results for Bourbon-type geranium essential oil. They do not constitute actual laboratory results unless supported by corresponding batch analytical records.

The valid batch Certificate of Analysis, GC–MS report and organic certification must take precedence.

Authorised by:

Fozia Khot
Director