



CERTIFICATE OF ANALYSIS (COA)

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PRODUCT IDENTIFICATION

Parameter	Details
Product Name	Orange Blossom Absolute
Alternative Names	Orange Flower Absolute; Bitter Orange Blossom Absolute
Botanical Name	<i>Citrus aurantium</i> L. var. <i>amara</i>
Botanical Family	Rutaceae
Plant Part	Flowers
INCI Name	Citrus Aurantium Amara Flower Extract
CAS Number	8030-28-2
FEMA Number	2818
Country of Origin	Egypt
Extraction Method	Solvent extraction followed by ethanol washing and solvent removal
Product Type	Natural Complex Substance / Botanical Absolute
Batch Number	OBA-EG-2607

ORGANOLEPTIC ANALYSIS

Test	Representative Specification	Representative Result
Appearance	Viscous liquid, soft paste or semi-solid	Conforms
Colour	Deep orange, amber-orange to dark brown	Conforms
Odour	Characteristic orange blossom, rich floral, honeyed, citrus, green and indolic	Conforms
Odour Strength	Strong and persistent	Conforms
Texture	Smooth, viscous and homogeneous	Conforms
Foreign Matter	Absent	Conforms



Olfactory Identity	Corresponds to approved Orange Blossom Absolute reference	Conforms
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PHYSICO-CHEMICAL ANALYSIS

Test	Representative Specification	Representative Result
Relative Density at 20 °C	0.950–1.050	0.988
Refractive Index at 20 °C	1.475–1.525	1.502
Acid Value	Maximum 15.0 mg KOH/g	6.8 mg KOH/g
Water Content	Maximum 1.0%	0.42%
Ethanol Solubility	Soluble to partially soluble; slight haze permitted	Conforms
Residual Solvent	Within commercial working specification	Conforms
Chromatographic Identity	Consistent with representative orange blossom profile	Conforms
Added Carrier or Diluent	None intentionally added	Conforms
Added Preservative	None intentionally added	Conforms

REPRESENTATIVE CHROMATOGRAPHIC PROFILE

Orange Blossom Absolute is a natural complex extract. Its composition varies according to the flowers, harvest, climatic conditions and extraction process.

Representative Constituent	Indicative Commercial Range
Linalool	8.0–25.0%
Linalyl Acetate	2.0–12.0%
Methyl Anthranilate	5.0–20.0%
Benzyl Alcohol	1.0–8.0%
Benzyl Benzoate	1.0–8.0%
Benzyl Salicylate	0.5–6.0%
Farnesol	0.2–3.0%
Limonene	0.1–3.0%
Geraniol	0.1–2.0%
Nerol	0.1–2.0%
Indole	0.1–2.0%
Citral	Trace–0.5%



Citronellol	Trace–1.0%
Eugenol	Trace–0.5%
Isoeugenol	Trace–0.2%
Floral waxes and non-volatiles	Balance

These ranges are representative only and are not batch-specific analytical results.

PURITY AND QUALITY STATUS

Assessment	Status
Botanical Identity	Conforms
Natural Floral Extract	Conforms
Country of Origin	Egypt
Added Synthetic Fragrance	None intentionally added
Added Carrier Oil	None intentionally added
Added Artificial Colour	None intentionally added
Added Preservative	None intentionally added
Animal-Derived Material	None
GMO Material	Not intentionally used
BSE/TSE Risk	Not applicable
Suitable for Internal Consumption	No
Perfumery Grade	Yes

MICROBIOLOGICAL STATUS

Because of the extraction process and low water activity, significant microbial growth is not normally expected.

Test	Representative Specification
Total Aerobic Microbial Count	Maximum 1,000 CFU/g
Yeast and Mould	Maximum 100 CFU/g
<i>Escherichia coli</i>	Absent
<i>Salmonella</i> spp.	Absent
<i>Staphylococcus aureus</i>	Absent

Microbiological values require batch-specific testing where needed for the intended application.



STORAGE CONDITIONS

Store:

- In the original tightly closed container
- At 5–20 °C
- Protected from direct sunlight, heat, air and moisture
- Away from strong oxidising agents
- With minimum container headspace where practical

The material may thicken or become semi-solid at lower temperatures. Allow the closed container to return gradually to room temperature and mix gently before use.

SHELF LIFE

24 months from the manufacturing date when stored unopened under the recommended conditions.

CONCLUSION

The representative organoleptic and physicochemical values conform to Aromology Trading LLC's commercial working specification for:

Orange Blossom Absolute

This Certificate of Analysis contains representative commercial values where original batch laboratory data were unavailable. It is not a substitute for a manufacturer-issued batch chromatogram or laboratory report.

AUTHORISED BY

Fozia Khot
Director
Aromology Trading LLC