



CERTIFICATE OF ANALYSIS (COA)

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PRODUCT INFORMATION

Parameter	Specification
Product Name	Fennel Essential Oil
Alternative Name	Sweet Fennel Seed Oil
Botanical Name	<i>Foeniculum vulgare</i> Mill. var. <i>dulce</i>
INCI Name	Foeniculum Vulgare Dulce Seed Oil
CAS Number	8006-84-6
EC Number	282-892-3
FEMA Number	2483
Origin	India
Plant Part	Seeds / Dried Fruits
Extraction Method	Steam Distillation
Product Type	Natural Essential Oil
Grade	Premium Perfumery Grade

ANALYTICAL SPECIFICATION

Test	Specification	Result
Appearance	Clear, mobile liquid	Conforms
Colour	Colourless to Pale Yellow	Conforms
Odour	Sweet, warm, anise-like, herbaceous	Conforms
Relative Density (20 °C)	0.930–0.970	Conforms
Refractive Index (20 °C)	1.525–1.553	Conforms
Optical Rotation	+5 ° to +25 °	Conforms
Flash Point	60–70 °C	Conforms
Solubility	Soluble in ethanol and fixed oils	Conforms



Purity 100% Natural Essential Oil Conforms

Typical GC Profile

Constituent	Typical Range
trans-Anethole	60–82%
Fenchone	1–20%
Limonene	1–8%
Estragole	2–6%
α -Pinene	1–8%
α -Phellandrene	0.2–5%

Natural fennel oil composition varies with cultivar, harvest season and geographical origin. trans-Anethole is the principal constituent, followed by fenchone, limonene and estragole.

Storage

Store tightly closed in a cool, dry and well-ventilated place away from direct sunlight, excessive heat and oxidising agents.

Shelf Life

36 months from the date of manufacture when stored under recommended conditions.

Conclusion

This material conforms to Aromology's quality specifications for Fennel Essential Oil (India) and is suitable for professional perfumery, cosmetic and fragrance applications.

Batch Number: FEI-260715

Manufacturing Date: 18 May 2026

Retest Date: 18 May 2029

Issue Date: 15 July 2026

Prepared and Authorised By:

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