



CERTIFICATE OF ANALYSIS (COA)

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PRODUCT INFORMATION

Parameter	Specification
Product Name	Fir Essential Oil
Botanical Name	<i>Abies spectabilis</i> (D.Don) Mirb.
INCI Name	Abies Spectabilis Extract
CAS Number	90028-76-5
EC Number	289-870-2
Origin	Nepal (East Himalayan Region)
Plant Part	Needles and Young Twigs
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	Fresh coniferous, green, balsamic, resinous	Conforms
Relative Density (20 °C)	0.860–0.890	Conforms
Refractive Index (20 °C)	1.470–1.485	Conforms
Optical Rotation	Batch Dependent	Conforms
Flash Point	45–55 °C	Conforms
Solubility	Soluble in ethanol and perfumery solvents; insoluble in water	Conforms



Purity 100% Natural Essential Oil Conforms

Typical GC Profile

Constituent	Typical Status
α -Pinene	Naturally Present
β -Pinene	Naturally Present
Camphene	Naturally Present
Limonene	Naturally Present
Bornyl Acetate	Naturally Present
β -Phellandrene	Naturally Present
δ -3-Carene	Naturally Present
Epi- α -eudesmol	Naturally Present

Published analyses of *Abies spectabilis* essential oil identify α -pinene, β -pinene, camphene, limonene and bornyl acetate among the principal naturally occurring constituents.

Storage

Store tightly closed in a cool, dry and well-ventilated place away from direct sunlight, excessive heat and strong 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 Fir Essential Oil (*Abies* Oil) – East Himalayan and is suitable for professional perfumery, cosmetic and fragrance applications.

Batch Number: FEH-260715

Manufacturing Date: 24 May 2026

Retest Date: 24 May 2029

Issue Date: 15 July 2026

Prepared and Authorised By:

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