



CERTIFICATE OF ANALYSIS (COA)

Product Information

Parameter	Specification
Product Name	White Pepper Essential Oil
Botanical Name	<i>Piper nigrum</i> L.
INCI Name	<i>Piper Nigrum</i> (Pepper) Seed Extract
EU CAS Number	8006-82-4
EC Number	284-524-7
Origin	India
Plant Part	White Peppercorns (Dried Fruits)
Extraction Method	Supercritical CO ₂ Extraction
Diluent	Triethyl Citrate (TEC) – 46%
Active Extract	White Pepper CO ₂ Extract – 54%
Product Type	Natural CO ₂ Extract in TEC

ANALYTICAL SPECIFICATION

Test	Specification	Result
Appearance	Clear to slightly viscous liquid	Conforms
Colour	Pale Yellow to Yellow	Conforms
Odour	Fresh, peppery, spicy, woody, warm with citrus nuances	Conforms
Relative Density (20°C)	1.000–1.060	Conforms
Refractive Index (20°C)	1.430–1.470	Conforms
Flash Point	>100°C	Conforms
Solubility	Soluble in ethanol	Conforms
Composition	54% White Pepper CO ₂ Extract / 46% Triethyl Citrate	Conforms

Typical Naturally Occurring Constituents (White Pepper CO₂ Extract)

Constituent	Status
β-Caryophyllene	Present
Limonene	Present
α-Pinene	Present
β-Pinene	Present
Sabinene	Present



δ -3-Carene	Present
Linalool	Present
β -Bisabolene	Present
Piperine	Present (minor)

Storage

Store tightly closed in a cool, dry place away from direct sunlight and oxidising agents.

Shelf Life

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

Conclusion

This material conforms to the above specification.

Prepared By:

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