



CERTIFICATE OF ANALYSIS (COA)

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PRODUCT INFORMATION

Parameter	Details
Product Name	Premium Black Pepper Essential Oil
Botanical Name	<i>Piper nigrum</i> L.
INCI Name	Piper Nigrum (Black Pepper) Fruit Oil
Plant Part	Dried Fruits (Peppercorns)
Extraction Method	Steam Distillation
Product Type	100% Pure Natural Essential Oil
Country of Origin	India
CAS Number	8006-82-4
EC Number	284-524-7
FEMA Number	2845
Batch Number	PBP-260724

ORGANOLEPTIC CHARACTERISTICS

Test	Specification	Result
Appearance	Clear mobile liquid	Conforms
Colour	Pale yellow to light amber	Conforms
Odour	Fresh, dry, warm, woody, spicy and peppery	Conforms

PHYSICO-CHEMICAL ANALYSIS

Test	Specification	Representative Result
Relative Density (20 °C)	0.860–0.890	0.873
Refractive Index (20 °C)	1.470–1.495	1.484
Optical Rotation	-25° to +10°	-8.0°
Flash Point	45–55 °C	49 °C
Solubility	Soluble in ethanol	Conforms



REPRESENTATIVE GC/MS PROFILE

Constituent	Typical Range	Representative Result
β -Caryophyllene	20.00–40.00%	31.80%
Limonene	10.00–25.00%	17.90%
Sabinene	10.00–20.00%	14.60%
α -Pinene	8.00–15.00%	11.50%
β -Pinene	8.00–15.00%	10.80%
δ -3-Carene	5.00–12.00%	8.70%
Myrcene	1.00–5.00%	2.20%
1,8-Cineole	0.50–3.00%	1.20%
Linalool	$\leq 1.00\%$	0.40%
Other Naturally Occurring Constituents	Balance	Conforms

The representative chromatographic profile is consistent with published GC data for steam-distilled Black Pepper Essential Oil.

QUALITY ASSESSMENT

Assessment	Status
Identification by GC/MS	Conforms
Identification by Organoleptic Evaluation	Conforms
Added Synthetic Materials	None Detected
Carrier Oils	None
GMO	Not Intentionally Added
Animal Derived Ingredients	None
Professional Perfumery Grade	Conforms

STORAGE

Store in tightly closed containers between 5–25 °C, protected from heat, air, moisture and direct sunlight.

SHELF LIFE

24 months under recommended storage conditions.

AUTHORISED BY

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Director
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