



Certificate of Analysis

1) Product Identification

Product Name: Black Pepper Essential Oil
Botanical Name: Piper nigrum
Country of Origin: India
Cultivation Method: Conventional
Extraction Method: Steam Distilled
Plant Part: Dried Berries
Lot #: 2
Best by Date: January 2021

2) Physical and Chemical Properties

Appearance:	Clear pale greenish liquid.	Conforms
Odor:	Characteristic.	Conforms
Specific Gravity:	0.860 to 0.890 @ 25°C	Conforms
Refractive Index:	1.474 to 1.488 @ 25°C	Conforms
Optical Rotation:	- 20.0° to - 5.0° @ 25°C	Conforms
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Conforms

3) Gas Chromatography Analysis (Typical)

Components:

delta-Limonene	24.0%	beta-Pinene	15.7%
Sabinene	17.9%	alpha-terpinene	9.9%
alpha-pinene	7.8%	beta-carophyllene	5.3%
nerolidol	3.0%		

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4) Storage Conditions

Store at temperature <math><30^{\circ}\text{C}</math> in closed containers and protected from direct sunlight.

5) Remarks

This Essential Oil is a 100% pure and natural product.
It does not contain any artificial ingredients or adulteration of any kind to the best of our knowledge.

6) Disclaimer

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