



## 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 #: 1  
Best by Date: February 2020

### 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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