



**Original Swiss Aromatics**

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# Certificate of Analysis

## Black Pepper Essential Oil

Piper nigrum – Dried Fruits | Steam Distillation

### General Description

<b>Common Name:</b>	Black Pepper
<b>Latin Name:</b>	Piper nigrum
<b>Country of Origin:</b>	Madagascar
<b>Cultivation Method:</b>	Organic
<b>SKU #:</b>	166
<b>Lot #:</b>	21031ORG
<b>Type:</b>	Essential Oil
<b>Extraction Method:</b>	Steam Distilled
<b>Plant Part:</b>	Dried Fruits
<b>Use:</b>	Aromatherapy, Natural Perfumery
<b>Manufacturing Date:</b>	October 2025

### Physical & Chemical Specifications

Parameter	Typical Value
<b>Specific Gravity (20°C):</b>	0.864 – 0.884   Result: 0.896
<b>Refractive Index (20°C):</b>	1.475 – 1.490   Result: 1.4829
<b>Optical Rotation (20°C):</b>	-18° to +20°

## Sensory Profile

Feature	Description
<b>Physical Appearance:</b>	Transparent liquid
<b>Color:</b>	Colorless to pale yellow/green
<b>Odor:</b>	Sharp, stimulating and spicy; the aroma of freshly ground pepper
<b>Solubility:</b>	Soluble in alcohol and fixed oils

## Special Use Instructions

<b>Special Use Instructions:</b>	Dilute before use. Refrigerate to preserve freshness.
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## Primary Constituents

Constituent	Typical Range (%)
<b><math>\beta</math>-Caryophyllene</b>	19.86%
<b>Limonene</b>	18.02%
<b><math>\alpha</math>-Pinene</b>	13.12%
<b><math>\beta</math>-Pinene</b>	12.26%
<b>Delta 3-Carene</b>	11.70%
<b>Delta Elemene</b>	2.88%
<b><math>\alpha</math>-Phellandrene</b>	2.23%
<b><math>\beta</math>-Myrcene</b>	2.13%
<b>Germacrene D</b>	2.56%
<b><math>\beta</math>-Selinene</b>	1.95%
<b><math>\alpha</math>-Selinene</b>	1.67%
<b><math>\alpha</math>-Humulene</b>	1.46%
<b>Sabinene</b>	1.78%

*Disclaimer: This Essential Oil is 100% pure and natural, free from artificial ingredients or adulteration of any kind. Original Swiss Aromatics stands behind the quality of this product and has provided the most thorough and accurate information available.*