AROMATICS DATA

GC-MS BATCH SUMMARY

Batch BLP-116

November 13, 2026

Black Pepper Essential Oil

Piper nigrum

Essential Oil

DISTILLATION DATE	EXTRACTION	CULTIVATION	COUNTRY OF ORIGIN
February 15, 2026	Steam Distilled	Organically Grown	India

TOP 5 COMPONENTS		of 60 measured
β-caryophyllene	Sesquiterpene	27.47%
limonene (d)	Monoterpene	11.78%
sabinene	Monoterpene	10.15%
β-pinene	Monoterpene	9.33%
α-pinene	Monoterpene	9.03%

Full composition · 60 components across 7 families

Monoterpene	**53.34%**
limonene (d)	11.78%
sabinene	10.15%
β-pinene	9.33%
α-pinene	9.03%
δ-3-carene	5.96%
α-thujene	1.69%
β-myrcene	1.50%
β-phellandrene	1.30%
α-phellandrene	0.98%
p-cymene	0.66%

Every batch is GC-MS tested by an independent lab. This report is provided for full transparency by Aromatics International.

Verify this batch: data.aromatics.com/products/black-pepper-essential-oil#batch=BLP-116

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camphene	0.27%
isoterpinolene	0.26%
γ-terpinene	0.18%
(E)-β-ocimene	0.14%
α-terpinene	0.11%
Sesquiterpene	**39.95%**
β-caryophyllene	27.47%
α-copaene	2.63%
β-bisabolene	2.27%
δ-elemene	1.19%
δ-cadinene	1.00%
δ-guaiene	0.93%
β-selinene	0.85%
β-elemene	0.76%
α-caryophyllene	0.73%
(E)-α-bergamotene	0.51%
(Z)-α-bergamotene	0.29%
ar-curcumene	0.28%
germacrene D	0.28%
α-cubebene	0.19%
(E)-β-farnesene	0.18%
α-ylangene	0.08%
β-caryophyllene · cis-caryophyllene	0.07%
α-santalene	0.07%
α-guaiene	0.07%
(Z)-cadina-1(6),4-diene	0.05%
(E)-α-bisabolene	0.05%
Oxide	**2.45%**
caryophyllene oxide	2.18%

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humulene epoxide 2	0.15%
allo-aromadendrene epoxide	0.08%
1,8-cineole	0.04%
Sesquiterpenol	**1.41%**
elemol	0.26%
α-muurolol	0.19%
epi-cubebol	0.16%
allohimachalol	0.16%
cubebol	0.15%
(E)-nerolidol	0.12%
longipinanol	0.12%
isospathulenol	0.10%
α-bisabolol	0.10%
spathulenol	0.05%
Monoterpenol	**1.32%**
terpinen-4-ol	0.35%
linalool	0.29%
(E)-sabinene hydrate	0.22%
(Z)-sabinene hydrate	0.17%
pinocarveol	0.08%
myrtenol	0.08%
α-terpineol	0.07%
p-cymen-8-ol	0.06%
Ketone	**0.06%**
cryptone	0.06%
Phenol	**0.05%**
eugenol	0.05%

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