AROMATICS DATA

GC-MS BATCH SUMMARY

Batch BSP-119

November 22, 2026

Black Spruce Essential Oil

Picea mariana

Essential Oil

DISTILLATION DATE	EXTRACTION	CULTIVATION	COUNTRY OF ORIGIN
April 24, 2025	Steam Distilled	Certified Organic	Canada

TOP 5 COMPONENTS

of 51 measured

bornyl acetate	Ester	**22.03%**
α-pinene	Monoterpene	**16.38%**
camphene	Monoterpene	**14.33%**
δ-3-carene	Monoterpene	**8.72%**
β-pinene	Monoterpene	**5.81%**

Full composition · 51 components across 9 families

Monoterpene	**62.50%**
α-pinene	16.38%
camphene	14.33%
δ-3-carene	8.72%
β-pinene	5.81%
limonene (d)	4.09%
β-myrcene	3.42%
santene	2.83%
tricyclene	2.19%
terpinolene	1.55%
β-phellandrene	1.37%

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

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α-phellandrene	0.45%
α-terpinene	0.41%
γ-terpinene	0.38%
p-cymene	0.32%
sabinene	0.14%
α-fenchene	0.11%
Ester	**24.63%**
bornyl acetate	22.03%
isobornyl acetate	0.91%
fenchyl acetate	0.49%
camphene hydrate	0.37%
geranyl acetate	0.26%
(Z)-pinocarvyl acetate · trans-pinocarvyl acetate	0.21%
citronellyl acetate	0.12%
(Z)-pinocarvyl acetate · cis-pinocarvyl acetate	0.12%
(E)-verbenyl acetate	0.12%
Sesquiterpene	**4.75%**
δ-cadinene	1.98%
γ-cadinene	0.57%
α-muurolene	0.52%
(E)-α-bisabolene	0.25%
β-caryophyllene	0.25%
γ-muurolene	0.20%
longifolene	0.18%
(E,E)-α-farnesene	0.17%
(Z)-cadina-1(6),4-diene	0.14%
α-cadinene	0.13%
zonarene	0.13%
β-elemene	0.13%

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α-caryophyllene	0.10%
Monoterpenol	**4.09%**
borneol	1.51%
α-terpineol	1.32%
terpinen-4-ol	0.45%
linalool	0.26%
τ-cadinol	0.18%
fenchol	0.13%
isoborneol	0.12%
(E)-pinocarveol	0.12%
Oxide	**0.50%**
1,8-cineole	0.50%
Sesquiterpenol	**0.36%**
α-cadinol	0.36%
Other	**0.20%**
6-camphenol	0.20%
Aldehyde	**0.17%**
α-campholene aldehyde	0.17%
Ketone	**0.13%**
camphor	0.13%

REFRACTIVE INDEX @20°C

1.4694

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