AROMATICS DATA

GC-MS BATCH SUMMARY

Batch BFR-114

November 13, 2026

Balsam Fir Essential Oil

Abies balsamea

Essential Oil

DISTILLATION DATE	EXTRACTION	CULTIVATION	COUNTRY OF ORIGIN
December 22, 2023	Steam Distilled	Certified Organic	Canada

TOP 5 COMPONENTS

of 77 measured

β-pinene	Monoterpene	**31.25%**
δ-3-carene	Monoterpene	**14.44%**
β-phellandrene	Monoterpene	**13.59%**
α-pinene	Monoterpene	**13.43%**
bornyl acetate	Ester	**10.03%**

Full composition · 77 components across 10 families

Monoterpene	**84.20%**
β-pinene	31.25%
δ-3-carene	14.44%
β-phellandrene	13.59%
α-pinene	13.43%
camphene	5.88%
β-myrcene	1.80%
santene	1.16%
tricyclene	0.89%
terpinolene	0.79%
p-cymene	0.29%

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/balsam-fir-essential-oil#batch=BFR-114

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α-thujene	0.17%
γ-terpinene	0.16%
sabinene	0.12%
α-phellandrene	0.08%
α-terpinene	0.07%
isoterpinolene	0.04%
(Z)-β-ocimene	0.03%
pseudolimonene	0.01%
Ester	**10.19%**
bornyl acetate	10.03%
camphene hydrate	0.05%
fenchyl acetate	0.04%
citronellyl acetate	0.04%
neryl acetate	0.01%
isopulegyl acetate	0.01%
citronellyl butyrate	0.01%
Sesquiterpene	**2.04%**
β-bisabolene	0.61%
β-caryophyllene	0.46%
longifolene	0.31%
α-caryophyllene	0.25%
α-longipinene	0.09%
(E)-α-bisabolene	0.06%
zingiberene	0.05%
β-selinene	0.04%
α-selinene	0.04%
γ-cadinene	0.03%
α-ylangene	0.03%
(E)-α-bergamotene	0.02%

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sativene	0.02%
δ-cadinene	0.02%
longicyclene	0.01%
Monoterpenol	**1.98%**
borneol	0.82%
α-terpineol	0.58%
terpinen-4-ol	0.17%
(E)-pinocarveol	0.12%
linalool	0.08%
p-cymen-8-ol	0.06%
terpinen-4-yl acetate	0.04%
fenchol	0.04%
(E)-p-menth-2-en-1-ol	0.02%
citronellol	0.02%
p-mentha-1,5-dien-8-ol	0.02%
(E)-carveol	0.01%
Ketone	**0.64%**
camphor	0.18%
piperitone	0.14%
cryptone	0.10%
fenchone	0.07%
isopinocamphone	0.06%
thuja-2,4(10)-diene	0.03%
nopinone	0.02%
pinocarvone	0.02%
verbenone	0.01%
carvone	0.01%
Other	**0.16%**
perillyl alcohol	0.07%

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α-cuprenene	0.03%
para-mentha-1,4,-dien-7-ol	0.02%
dehydro-p-cymene	0.02%
toluene	0.01%
neo-isopulegyl acetate	0.01%
Oxide	**0.14%**
caryophyllene oxide	0.08%
humulene epoxide 2	0.03%
(Z)-limonene oxide	0.02%
α-pinene oxide	0.01%
Sesquiterpenol	**0.05%**
(E)-nerolidol	0.04%
1,10-epi-cubenol	0.01%
Ether	**0.04%**
methyl thymol	0.03%
1-methoxyhexane	0.01%
Aldehyde	**0.02%**
phellandral	0.02%

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