



Fir Balsam

Abies balsamea canadensis

Batch No. CA-58964
 Organically Produced, Canada

Monoterpenes 77.67%

Δ ³ carene	18.67
α pinene	16.78
β pinene	14.23
limonene	9.64
camphene	8.63
santene	4.28
terpinolene	1.58
myrcene	1.28
tricyclene	1.24
γ terpinene	0.31
α phellandrene	0.18
α terpinene	0.16
α thujene	0.16
para cymene	0.11
meta-cymenene	0.09
sabinene	0.09
isoterpinolene	0.07
α fenchene	0.06
meta-cymene	0.04
(Z)-β-Ocimene	0.03
Thuja-2,4(10)-diene	0.02
bornylene	0.01
para-cymenene	0.01

Aldehydes 0.13%

α-Campholenal	0.04
myrtenal	0.03
phellandral	0.03
Isopimaral	0.02
hexanal	0.01

Sesquiterpenols 0.03%

(E)-Nerolidol	0.03
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Monoterpenols 2.09%

borneol	1.15
α terpineol	0.31
terpinen-4-ol	0.22
linalool	0.09
camphene hydrate	0.08
thymol	0.05
endo-fenchol	0.03
isoborneol	0.03
trans-pinocarveol	0.03
α phellandren-8-ol	0.03
Citronellol	0.02
meta-Mentha-4,6-dien-8-ol	0.02
cis-para-menth-2-en-1-ol	0.02
para-Cymen-8-ol	0.01
cis-sabinene hydrate	0.01

Ethers 3.4%

1,8 cineole + β phellandrene	3.31
Thymol methyl ether	0.06
Caryophyllene oxide	0.03

Phenols 0.06%

Toluene	0.01
4-Hydroxy-3-methoxybenzene propanol?	0.04
methyleugenol	0.01

Other 0.29%

unknown	0.09
γ-Campholenal	0.07
(3Z)-Hexenol	0.03
Hexanol	0.03
abieta-8,12-diene	0.02
manool	0.02
heptane	0.01
carvomenthene	0.01
trachylobane?	0.01

Sesquiterpenes 2.33%

β caryophyllene	0.57
β bisabolene	0.53
longifolene	0.39
α humulene	0.29
α longipinene	0.08
(E)-α-Bisabolene	0.07
(E)-β-Farnesene	0.05
β himachalene	0.05
trans-α bergamotene	0.04
β selinene	0.04
δ cadinene	0.04
α muuronlene	0.03
germacrene D	0.03
α copaene	0.02
α selinene	0.02
β longipnene	0.02
γ muurolene	0.02
(E)-γ-Bisabolene	0.01
α-Calacorene	0.01
γ cadinene	0.01
γ-Dehydro-ar-himachalene	0.01

Ketones 1.55%

camphor	0.69
piperitone	0.65
verbenone	0.08
isopinocampnone	0.06
pinocarvone	0.03
2-Undecanone	0.02
cryptone	0.02

Esters 11.28%

bornyl acetate	11.11
geranyl acetate	0.04
isobornyl acetate	0.03
endo-Fenchyl acetate	0.02
Ethyl α-linolenate	0.02
citronellyl acetate	0.02
myrtenyl acetate	0.02
Isopulegyl acetate	0.01
3-Methyl-3-butenyl 4-methylvaler	0.01

Raw Material: Fir Balsam
 INCI Name: Abies balsamea canadensis
 Production Method: Steam distillation, needles
 Date of Analysis: 7/4/2019