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Balancing Body, Mind and Spirit with Pure Essential Oils

Since 1995

www.naturesgift.com

Black Spruce

Picea mariana

Batch No. #CA-59436

Canada

Aldehydes

α campholene aldehyde	0.19
myrtenal	0.04
neral	0.03
nonanal	0.02
geranial	0.01

Ethers

caryophyllene oxide	0.03
α pinene oxide	0.01
1,4 cineole	0.01
perillene	0.01

Esters

bornyl acetate	24.25
fenchyl acetate	0.62
geranyl acetate	0.45
cis-verbenyl acetate	0.40
trans-sabinyl acetate	0.24
citronellyl acetate	0.20
α terpinyl acetate	0.17
trans-pinocarvyl acetate	0.06
terpinen-4-yl acetate	0.05
methyl salicylate	0.04
ethyl isovalerate	0.01
methyl citronellate	0.01

Ketones

camphor	0.16
piperitone	0.05
cryptone	0.02
nopinone	0.01

Other

(Z) hex-3-en-1-ol	0.03
octane	0.02
1-hexanol	0.02
tetradecanol	0.01
1-octen-3-ol	0.01
6-methyl-5-hepten-2-ol	0.01
1-octanol	0.01
sclarene	0.01
abienol	0.01

Monoterpenes

camphene	13.25
α pinene	11.39
Δ^3 -carene	7.87
limonene	6.64
β pinene	4.83
myrcene	4.33
santene	3.35
tricyclene	2.57
terpinolene	1.49
α phellandrene	0.59
para cymene	0.46
α terpinene	0.41
γ terpinene	0.37
α thujene	0.27
sabinene	0.23
para-cymenene	0.18
(Z)- β -ocimene	0.06
thuja-2,4(10)-diene	0.03
(E)- β -ocimene	0.02
alloocimene	0.02
2-carene	0.01

Monoterpenols

borneol	1.30
α terpineol	1.09
camphene hydrate	0.74
linalool	0.59
terpinen-4-ol	0.55
isoborneol	0.19
trans-pinocarveol	0.18
citronellol	0.17
para-cymen-8-ol	0.10
fenchol	0.06
(Z) para-menth-2-en-1-ol	0.06
(E) para-menth-2-en-1-ol	0.05
neo-isopulegol	0.05
trans-carveol	0.05
geraniol	0.04
cis-carveol	0.02

Sesquiterpenes

δ cadinene	1.95
γ cadinene	0.52
α muurolene	0.51
β caryophyllene	0.34
(E)- α -bisabolene	0.30
δ elemene	0.26
cis-calamenene	0.22
γ muurolene	0.21
germacrene D	0.16
longifolene	0.16
trans-cadina-1(6),4-diene	0.15
α cadinene	0.14
(E,E) α farnesene	0.12
α humulene	0.09
trans-cadina-1,4-diene	0.07
trans-muurola-3,5-diene	0.07
cis-muurola-4(14),5-diene	0.07
1-epi-bicyclosquiphellandrene	0.07
α copaene	0.06
β cadinene	0.05
α selinene	0.04
β selinene	0.04
11 α H-Himachala-1,4-diene	0.03
longicyclene	0.02
β copaene	0.02
cis-muurola-3,5-diene	0.02
allo-aromadendrene	0.01

Sesquiterpenols

α cadinol	0.46
τ cadinol	0.27
τ muurolol	0.22
α muurolol	0.07
(E) nerolidol	0.06
1,10-di-epi-cubenol	0.05
Amorpha-4,9-dien-2-ol	0.02

Phenols

methyl eugenol	0.01
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Client



Source

Black Spruce (*Picea mariana*)

CA-59436 - Canada

Sample

Black Spruce (*Picea mariana*)

Identification #: CA-59436

Type:..... Essential Oil

CAS Number:... 91722-19-9

Nature's Gift

Properties

Country Of Origin | Canada

Specific Gravity | NT

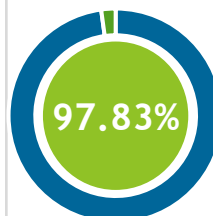
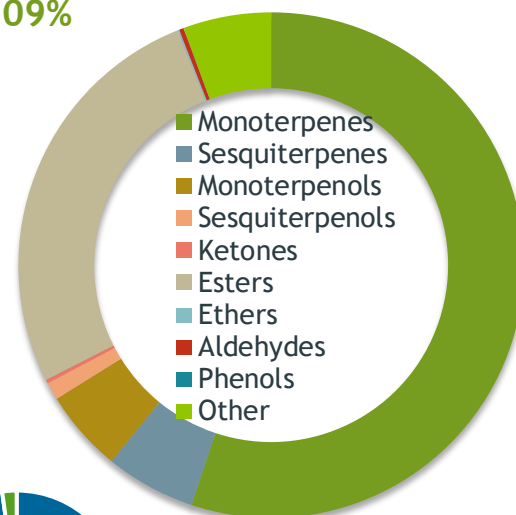
Refractive Index | NT

Primary

24.25% | Bornyl acetate13.25% | Camphene11.39% | alpha-Pinene

Monoterpenes

55.09%



Percentage Identified

Result



3/2/2025

Conclusion

No adulterants, diluents, or contaminants were detected via this method. This oil meets the expected profile for genuine Essential Oil of Black Spruce (*Picea mariana*)

Internal Number: | EVS-6612



Essential Validation Services

240 Goose Hollow Road

Berthoud, CO 80513

317.361.5044 |

<https://essentialvalidationservices.com/>

Monoterpenes	55.09%	55.09
Sesquiterpenes	5.77%	5.77
Monoterpenols	5.25%	5.25
Sesquiterpenols	1.13%	1.13
Ketones	0.24%	0.24
Esters	26.44%	26.44
Ethers	0.12%	0.12
Aldehydes	0.29%	0.29
Phenols	0.01%	0.01
Other	5.63%	5.63

Client



Source

*Black Spruce (Picea mariana)*

CA-59436

Total Percentage		97.83%		
Number	RT	Area %	Compound Name	Chemical Family
1	4.22	0.02%	Octane	Alkane
2	5.59	0.01%	Ethyl isovalerate	Aliphatic Ester
3	5.65	0.03%	cis-Hex-3-en-1-ol	Aliphatic Alcohol
4	6.08	0.02%	1-Hexanol	Aliphatic Alcohol
5	6.44	3.35%	Santene	Normonoterpene
6	7.79	2.57%	Tricyclene	Monoterpene
7	7.96	0.27%	alpha-Thujene	Monoterpene
8	8.27	11.39%	alpha-Pinene	Monoterpene
9	8.90	13.25%	Camphene	Monoterpene
10	9.00	0.03%	Thuja-2,4(10)-diene	Monoterpene
11	9.76	0.23%	Sabinene	Monoterpene
12	9.95	4.83%	beta-Pinene	Monoterpene
13	10.17	0.01%	1-Octen-3-ol	Aliphatic Alcohol
14	10.31	0.01%	6-Methyl-5-hepten-2-ol	Aliphatic Alcohol
15	10.53	4.33%	Myrcene	Monoterpene
16	10.85	0.01%	2-Carene	Monoterpene
17	11.17	0.59%	alpha-Phellandrene	Monoterpene
18	11.31	7.87%	delta-3-Carene	Monoterpene
19	11.52	0.01%	1,4-Cineole	Monoterpene Ether
20	11.62	0.41%	alpha-Terpinene	Monoterpene
21	11.96	0.46%	para-Cymene	Monoterpene
22	12.20	6.64%	Limonene	Monoterpene
23	12.53	0.06%	(Z)-beta-Ocimene	Monoterpene
24	12.99	0.02%	(E)-beta-Ocimene	Monoterpene
25	13.46	0.37%	gamma-Terpinene	Monoterpene
26	14.15	0.01%	1-Octanol	Aliphatic Alcohol
27	14.69	1.49%	Terpinolene	Monoterpene
28	14.91	0.18%	para-Cymenene	Monoterpene
29	15.22	0.01%	alpha-Pinene oxide	Monoterpene Ether
30	15.31	0.01%	Perillene	Monoterpene Ether
31	15.43	0.59%	Linalool	Monoterpenol
32	15.63	0.02%	Nonanal	Aliphatic Aldehyde
33	16.22	0.06%	Fenchol	Monoterpenol
34	16.46	0.06%	cis-para-Menth-2-en-1-ol	Monoterpenol
35	16.55	0.19%	alpha-Campholene aldehyde	Monoterpene Aldehyde



Black Spruce (Picea mariana)

CA-59436

Number	RT	Area %	Compound Name	Chemical Family
36	16.692	0.02%	Alloocimene	Monoterpene Aldehyde
37	17.02	0.01%	Nopinone	Monoterpene Ketone
38	17.16	0.18%	trans-Pinocarveol	Monoterpenol
39	17.30	0.05%	trans-para-Menth-2-en-1-ol	Monoterpenol
40	17.39	0.16%	Camphor	Monoterpene Ketone
41	17.80	0.74%	Camphene hydrate	Monoterpenol
42	17.99	0.05%	neo-Isopulegol	Monoterpenol
43	18.21	0.19%	Isoborneol	Monoterpenol
44	18.64	1.30%	Borneol	Monoterpenol
45	19.03	0.55%	Terpinen-4-ol	Monoterpenol
46	19.27	0.02%	Cryptone	Monoterpene Ketone
47	19.44	0.10%	para-Cymen-8-ol	Monoterpenol
48	19.55	0.04%	Methyl salicylate	Phenolic Ester
49	19.65	0.04%	Myrtenal	Monoterpene Aldehyde
50	19.76	1.09%	alpha-Terpineol	Monoterpenol
51	20.71	0.62%	Fenchyl acetate	Monoterpene Ester
52	20.90	0.05%	trans-Carveol	Monoterpenol
53	21.34	0.17%	Citronellol	Monoterpenol
54	21.69	0.03%	Neral	Monoterpene Aldehyde
55	22.18	0.02%	cis-Carveol	Monoterpenol
56	22.32	0.05%	Piperitone	Monoterpene Ketone
57	22.42	0.04%	Geraniol	Monoterpenol
58	22.65	0.01%	Methyl citronellate	Monoterpene Ester
59	23.13	0.01%	Geranial	Monoterpene Aldehyde
60	23.47	0.40%	cis-Verbenyl acetate	Monoterpene Ester
61	23.88	24.25%	Bornyl acetate	Monoterpene Ester
62	24.22	0.24%	trans-Sabinyl acetate	Monoterpene Ester
63	25.41	0.06%	trans-Pinocarvyl acetate	Monoterpene Ether
64	25.87	0.26%	delta-Elementene	Sesquiterpene
65	26.23	0.05%	Terpinen-4-yl acetate	Monoterpene Ester
66	26.44	0.17%	alpha-Terpinyl acetate	Monoterpene Ester
67	26.65	0.20%	Citronellyl acetate	Monoterpene Ester
68	27.47	0.02%	Longicyclene	Sesquiterpene
69	27.62	0.06%	alpha-Copaene	Sesquiterpene
70	27.87	0.45%	Geranyl acetate	Monoterpene Ester

Client



Source



Black Spruce (Picea mariana)
CA-59436

72	28.79	0.01%	Methyl eugenol	Phenylpropanoid
73	28.94	0.16%	Longifolene	Sesquiterpene
74	29.41	0.34%	beta-Caryophyllene	Sesquiterpene
75	29.85	0.02%	beta-Copaene	Sesquiterpene
76	30.64	0.07%	trans-Muurolo-3,5-diene	Sesquiterpene
77	30.87	0.09%	alpha-Humulene	Sesquiterpene
78	31.09	0.02%	cis-Muurolo-3,5-diene	Sesquiterpene
79	31.17	0.07%	cis-Muurolo-4(14),5-diene	Sesquiterpene
80	31.38	0.01%	allo-Aromadendrene	Sesquiterpene
81	31.60	0.15%	trans-Cadina-1(6),4-diene	Sesquiterpene
82	31.74	0.21%	gamma-Muurolo-3,5-diene	Sesquiterpene
83	31.93	0.16%	Germacrene D	Sesquiterpene
84	32.24	0.04%	beta-Selinene	Sesquiterpene
85	32.35	0.07%	1-epi-Bicyclosesquiphellandrene	Monoterpene
86	32.44	0.03%	11-alpha-H-Himachala-1,4-diene	Sesquiterpene
87	32.54	0.04%	alpha-Selinene	Sesquiterpene
88	32.63	0.05%	beta-Cadinene	Sesquiterpene
89	32.72	0.51%	alpha-Muurolo-3,5-diene	Sesquiterpene
90	33.05	0.12%	(E,E)-alpha-Farnesene	Sesquiterpene
91	33.26	0.52%	gamma-Cadinene	Sesquiterpene
92	33.52	1.95%	delta-Cadinene	Sesquiterpene
93	33.61	0.22%	cis-Calamenene	Sesquiterpene
94	34.02	0.07%	trans-Cadina-1,4-diene	Sesquiterpene
95	34.19	0.14%	alpha-Cadinene	Sesquiterpene
96	34.41	0.30%	trans-alpha-Bisabolene	Sesquiterpene
97	35.24	0.06%	(E)-Nerolidol	Sesquiterpenol
98	35.84	0.03%	Caryophyllene oxide	Sesquiterpene Ether
99	37.65	0.05%	1,10-di-epi-Cubenol	Sesquiterpenol
100	38.21	0.27%	T-Cadinol	Sesquiterpenol
101	38.28	0.22%	T-Muurolo-3,5-diene	Sesquiterpenol
102	38.38	0.07%	alpha-Muurolo-3,5-diene	Sesquiterpenol
103	38.70	0.46%	alpha-Cadinol	Sesquiterpenol
104	39.63	0.01%	Tetradecanol	Monoterpenol
105	40.24	0.02%	36.77 Amorpha-4,9-dien-2-ol	0.00
106	50.13	0.01%	Sclarene	Diterpene
107	54.72	0.01%	51.98 Abienol	0.00