

Client



Source



White Spruce, Organic (*Picea glauca*)  
BPIGLCAN03VKC

Sample

White Spruce, Organic (*Picea glauca*)

Batch #:..... BPIGLCAN03VKC

Type:..... Essential Oil

CAS Number:...

Natural Sourcing LLC

Client



Website



Primary

24.56%

beta-Pinene

20.16%

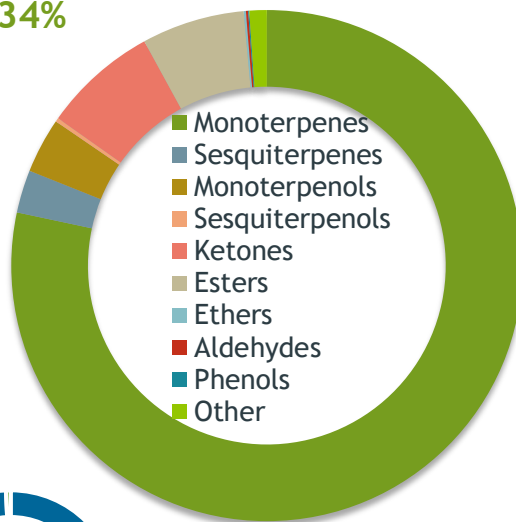
alpha-Pinene

14.07%

Limonene

Monoterpenes

78.34%



Percentage Identified

Result



Conclusion

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

Internal Number: | EVS-4794



Essential Validation Services

747 SW 2nd Ave IMB 12 Suite 306  
Gainesville, FL 32601

317.361.5044 |  
<https://essentialvalidationservices.com/>

*Alan Chastain*

Monoterpenes	78.34%	78.34%
Sesquiterpenes		2.71%
Monoterpenols		3.49%
Sesquiterpenols		0.24%
Ketones	7	7.26%
Esters	6	6.51%
Ethers		0.14%
Aldehydes		0.14%
Phenols		0.07%
Other		1.10%

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**NATURAL SOURCING**  
 Cosmetic and Personal Care Ingredient Specialists  
 PROUDLY SERVING YOU FOR OVER 30 YEARS

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Total Percentage		99.29%		
Number	RT	Area %	Compound Name	Chemical Family
1	4.20	0.04%	Hexanal	Aliphatic Aldehyde
2	5.55	0.01%	(E)-2-Hexenal	Aliphatic Aldehyde
3	5.61	0.06%	cis-Hex-3-en-1-ol	Aliphatic Alcohol
4	6.03	0.02%	1-Hexanol	Aliphatic Alcohol
5	6.37	0.18%	Santene	Normonoterpene
6	6.66	0.02%	Styrene	Phenylpropanoid
7	7.72	0.53%	Tricyclene	Monoterpene
8	7.89	0.20%	alpha-Thujene	Monoterpene
9	8.17	20.16%	alpha-Pinene	Monoterpene
10	8.75	5.34%	Camphene	Monoterpene
11	8.92	0.07%	Thuja-2,4(10)-diene	Monoterpene
12	9.25	0.01%	Benzaldehyde	Simple Phenolic
13	9.70	0.35%	Sabinene	Monoterpene
14	9.90	24.56%	beta-Pinene	Monoterpene
15	10.45	5.45%	Myrcene	Monoterpene
16	11.08	0.56%	alpha-Phellandrene	Monoterpene
17	11.19	4.94%	delta-3-Carene	Monoterpene
18	11.55	0.23%	alpha-Terpinene	Monoterpene
19	11.89	0.34%	para-Cymene	Monoterpene
20	12.13	14.07%	Limonene	Monoterpene
21	12.47	0.05%	(Z)-beta-Ocimene	Monoterpene
22	13.40	0.35%	gamma-Terpinene	Monoterpene
23	14.46	0.03%	Isoterpinolene	Monoterpene
24	14.62	1.02%	Terpinolene	Monoterpene
25	14.70	0.10%	Fenchone	Monoterpene Ketone
26	14.83	0.09%	para-Cymenene	Monoterpene
27	15.25	0.01%	Perillene	Monoterpene Ether
28	15.35	0.17%	Linalool	Monoterpenol
29	15.57	0.01%	Nonanal	Aliphatic Aldehyde
30	16.13	0.12%	Fenchol	Monoterpenol
31	16.39	0.02%	cis-para-Menth-2-en-1-ol	Monoterpenol
32	16.48	0.06%	alpha-Campholene aldehyde	Monoterpene Aldehyde
33	16.96	0.02%	Nopinone	Normonoterpene Ketone
34	17.09	0.19%	trans-Pinocarveol	Monoterpenol
35	17.35	6.65%	Camphor	Monoterpene Ketone

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Essential Validation Services

12/13/2021

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Number	RT	Area %	Compound Name	Chemical Family
36	17.716	0.25%	Camphene hydrate	Monoterpene Ketone
37	17.98	0.04%	Pinocamphone	Monoterpene Ketone
38	18.07	0.03%	Pinocarvone	Monoterpene Ketone
39	18.14	0.03%	Isoborneol	Monoterpenol
40	18.53	0.87%	Borneol	Monoterpenol
41	18.68	0.06%	Isopinocamphone	Monoterpene Ketone
42	18.95	0.40%	Terpinen-4-ol	Monoterpenol
43	19.18	0.01%	Cryptone	Monoterpene Ketone
44	19.29	0.03%	para-Cymen-8-ol	Monoterpenol
45	19.64	1.19%	alpha-Terpineol	Monoterpenol
46	19.79	0.03%	Methyl chavicol	Phenylpropanoid
47	20.13	0.04%	Verbenone	Monoterpene Ketone
48	20.67	0.04%	Fenchyl acetate	Monoterpene Ester
49	20.76	0.02%	trans-Carveol	Monoterpenol
50	21.20	0.19%	Citronellol	Monoterpenol
51	21.28	0.09%	Methyl thymol	Monoterpene Ether
52	21.82	0.03%	Carvone	Monoterpene Ketone
53	22.24	0.26%	Piperitone	Monoterpene Ketone
54	22.69	0.01%	trans-Myrtanol	Monoterpenol
55	23.29	0.02%	Phellandral	Monoterpene Aldehyde
56	23.67	6.37%	Bornyl acetate	Monoterpene Ester
57	24.14	0.02%	2-Undecanone	Aliphatic Ketone
58	26.45	0.11%	alpha-Longipinene	Sesquiterpene
59	26.63	0.03%	Citronellyl acetate	Monoterpene Ester
60	27.44	0.04%	Longicyclene	Sesquiterpene
61	27.86	0.03%	Geranyl acetate	Monoterpene Ester
62	28.22	0.16%	beta-Elemene	Sesquiterpene
63	28.59	0.01%	beta-Longipinene	Sesquiterpene
64	28.76	0.01%	Methyl eugenol	Phenylpropanoid
65	28.92	0.50%	Longifolene	Sesquiterpene
66	29.39	0.26%	cis-Caryophyllene	Sesquiterpene
67	29.89	0.03%	gamma-Elemene	Sesquiterpene
68	30.06	0.02%	cis-alpha-Bergamotene	Sesquiterpene
69	30.63	0.02%	cis-Muurolo-3,5-diene	Sesquiterpene
70	30.86	0.25%	alpha-Humulene	Sesquiterpene
71	30.95	0.05%	(E)-beta-Farnesene	Sesquiterpene

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