

Client



Source



Scotch Pine, Organic (*Pinus sylvestris*)
BPISYCAN05VKC

Sample

Scotch Pine, Organic (*Pinus sylvestris*)

Batch #:..... BPISYCAN05VKC

Type:..... Essential Oil

CAS Number:... 8023-99-2

Natural Sourcing LLC

Client



Website



Primary

26.14%

alpha-Pinene

19.10%

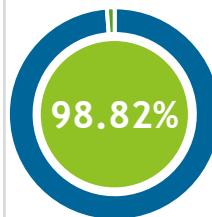
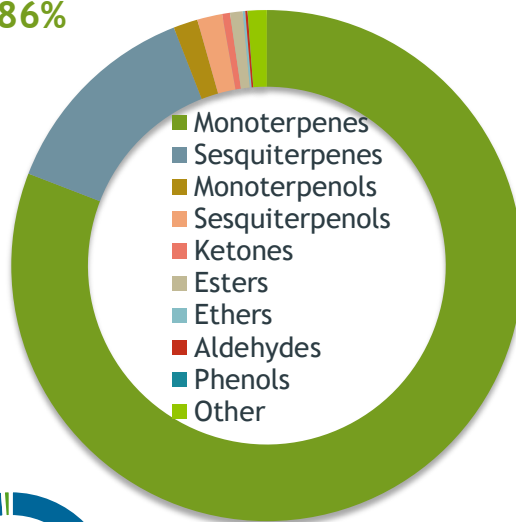
delta-3-Carene

18.09%

beta-Pinene

Monoterpenes

80.86%



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 Scotch Pine, Organic (*Pinus sylvestris*)

Internal Number: | EVS-4793



Essential Validation Services

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

317.361.5044 |

<https://essentialvalidationservices.com/>

Alan Chastain

Monoterpenes	80.86%	80.86%
Sesquiterpenes	13.21%	13.21%
Monoterpenols	1.54%	1.54%
Sesquiterpenols	1.59%	1.59%
Ketones	0.49%	0.49%
Esters	0.80%	0.80%
Ethers	0.16%	0.16%
Aldehydes	0.14%	0.14%
Phenols	0.01%	0.01%
Other	1.20%	1.20%

- Essential Oil testing is performed by using qualitative GC-MS. Method: SOP.T.01 Client Method
 - This report may not be published without the consent of Essential Validation Services.
 - Chromatograph image may be requested
 - This report is valid for 1 year from the analyzed date

Client


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

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Total Percentage		98.82%		
Number	RT	Area %	Compound Name	Chemical Family
1	4.15	0.01%	Octane	Alkane
2	4.20	0.04%	Hexanal	Aliphatic Aldehyde
3	6.37	0.01%	Santene	Normonoterpene
4	7.73	0.56%	Tricyclene	Monoterpene
5	7.90	0.27%	alpha-Thujene	Monoterpene
6	8.19	26.14%	alpha-Pinene	Monoterpene
7	8.75	2.41%	Camphene	Monoterpene
8	8.92	0.06%	Thuja-2,4(10)-diene	Monoterpene
9	9.70	0.50%	Sabinene	Monoterpene
10	9.89	18.09%	beta-Pinene	Monoterpene
11	10.45	4.78%	Myrcene	Monoterpene
12	11.10	0.10%	alpha-Phellandrene	Monoterpene
13	11.24	19.10%	delta-3-Carene	Monoterpene
14	11.56	0.25%	alpha-Terpinene	Monoterpene
15	11.89	0.41%	ortho-Cymene	Monoterpene
16	12.11	4.17%	Limonene	Monoterpene
17	12.47	0.09%	(Z)-beta-Ocimene	Monoterpene
18	12.93	0.43%	(E)-beta-Ocimene	Monoterpene
19	13.40	0.48%	gamma-Terpinene	Monoterpene
20	14.46	0.21%	Isoterpinolene	Monoterpene
21	14.63	2.62%	Terpinolene	Monoterpene
22	14.83	0.17%	para-Cymenene	Monoterpene
23	15.57	0.03%	Nonanal	Aliphatic Aldehyde
24	16.13	0.06%	Fenchol	Monoterpenol
25	16.48	0.04%	alpha-Campholene aldehyde	Monoterpene Aldehyde
26	16.64	0.02%	Alloocimene	Monoterpene
27	16.75	0.01%	cis-Limonene oxide	Monoterpene Ether
28	16.95	0.01%	Nopinone	Normonoterpene Ketone
29	17.08	0.19%	trans-Pinocarveol	Monoterpenol
30	17.33	0.10%	Camphor	Monoterpene Ketone
31	17.72	0.02%	Camphene hydrate	Monoterpenol
32	17.98	0.09%	Pinocamphone	Monoterpene Ketone
33	18.07	0.04%	Pinocarvone	Monoterpene Ketone
34	18.15	0.07%	para-Mentha-1,5-dien-8-ol	Monoterpenol
35	18.54	0.14%	Borneol	Monoterpenol

 ESSENTIAL VALIDATION SERVICES | 747 SW 2ND AVE GAINESVILLE, FLORIDA 32601 | 317-361-5044

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Essential Validation Services

12/13/2021

Client



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Number	RT	Area %	Compound Name	Chemical Family
36	18.676	0.09%	Isopinocampone	Monoterpenol
37	18.95	0.31%	Terpinen-4-ol	Monoterpenol
38	19.29	0.04%	para-Cymen-8-ol	Monoterpenol
39	19.64	0.71%	alpha-Terpineol	Monoterpenol
40	19.81	0.01%	Methyl chavicol	Phenylpropanoid
41	20.13	0.03%	Verbenone	Monoterpene Ketone
42	20.27	0.03%	Myrtenal	Monoterpene Aldehyde
43	21.28	0.02%	Methyl thymol	Monoterpene Ether
44	21.82	0.02%	Carvone	Monoterpene Ketone
45	22.23	0.02%	Linalyl acetate	Monoterpene Ester
46	23.66	0.68%	Bornyl acetate	Monoterpene Ester
47	24.14	0.11%	2-Undecanone	Aliphatic Ketone
48	25.75	0.16%	delta-Elemene	Sesquiterpene
49	25.87	0.05%	delta-Terpinyl acetate	Monoterpene Ester
50	26.43	0.46%	alpha-Longipinene	Sesquiterpene
51	27.32	0.03%	alpha-Ylangene	Sesquiterpene
52	27.43	0.01%	Longicyclene	Sesquiterpene
53	27.60	0.16%	alpha-Copaene	Sesquiterpene
54	27.91	0.08%	beta-Bourbonene	Sesquiterpene
55	28.14	0.03%	beta-Cubebene	Sesquiterpene
56	28.23	0.51%	beta-Elemene	Sesquiterpene
57	28.92	0.33%	Longifolene	Sesquiterpene
58	29.40	1.81%	beta-Caryophyllene	Sesquiterpene
59	29.84	0.10%	beta-Copaene	Sesquiterpene
60	30.18	0.09%	Aromadendrene	Sesquiterpene
61	30.35	0.11%	6,9-Guaiadiene	Sesquiterpene
62	30.50	0.05%	cis-Muurolo-3,5-diene	Sesquiterpene
63	30.63	0.13%	trans-Muurolo-3,5-diene	Sesquiterpene
64	30.87	0.33%	alpha-Humulene	Sesquiterpene
65	30.96	0.04%	(E)-beta-Farnesene	Sesquiterpene
66	31.16	0.16%	cis-Cadina-1(6),4-diene	Sesquiterpene
67	31.38	0.09%	allo-Aromadendrene	Sesquiterpene
68	31.60	0.22%	trans-Cadina-1(6),4-diene	Sesquiterpene
69	31.73	0.43%	gamma-Muurolo-3,5-diene	Sesquiterpene
70	31.93	1.08%	Germacrene D	Sesquiterpene
71	32.12	0.03%	Dauca-5,8-diene	Sesquiterpene

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