

Client



Source

Cypress (*Cupressus sempervirens*)

NF-CYPR-21-A

Sample

Cypress (*Cupressus sempervirens*)

Batch #:..... NF-CYPR-21-A

Type:..... Essential Oil

CAS Number:.... 8013-86-3

Nature's Fusions

Client



Website

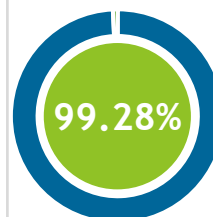
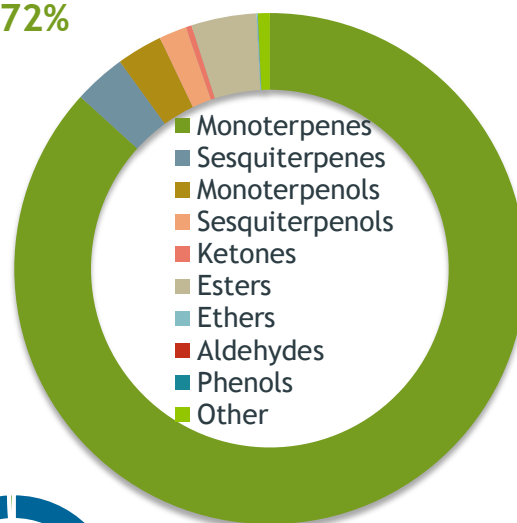


Primary

44.82%alpha-Pinene24.23%delta-3-Carene3.78%Limonene

Monoterpenes

86.72%



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 Cypress (*Cupressus sempervirens*)

Internal Number: | EVS-4274



Essential Validation
Services

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Monoterpenes	86.72%	86.72%
Sesquiterpenes	3.30%	
Monoterpenols	2.90%	
Sesquiterpenols	1.75%	
Ketones	0.37%	
Esters	4.12%	
Ethers	0.07%	
Aldehydes	0.00%	
Phenols	0.02%	
Other	0.75%	

Client

Nature's FUSIONS
ESSENTIAL OILS

Source

Cypress (*Cupressus sempervirens*)

NF-CYPR-21-A

Total Percentage		99.28%		
Number	RT	Area %	Compound Name	Chemical Family
1	7.12	0.06%	Bornylene	Monoterpene
2	7.74	0.20%	Tricyclene	Monoterpene
3	7.91	0.69%	alpha-Thujene	Monoterpene
4	8.21	44.82%	alpha-Pinene	Monoterpene
5	8.70	0.85%	alpha-Fenchene	Monoterpene
6	8.76	0.26%	Camphene	Monoterpene
7	8.93	0.02%	Thuja-2,4(10)-diene	Monoterpene
8	9.70	1.11%	Sabinene	Monoterpene
9	9.86	1.22%	beta-Pinene	Monoterpene
10	10.45	2.93%	Myrcene	Monoterpene
11	11.11	0.09%	alpha-Phellandrene	Monoterpene
12	11.25	24.23%	delta-3-Carene	Monoterpene
13	11.49	0.04%	1,4-Cineole	Monoterpene Ether
14	11.57	0.63%	alpha-Terpinene	Monoterpene
15	11.69	0.04%	o-Cymene	Monoterpene
16	11.89	0.61%	para-Cymene	Monoterpene
17	12.11	3.78%	Limonene	Monoterpene
18	12.48	0.09%	(Z)-beta-Ocimene	Monoterpene
19	12.94	0.04%	(E)-beta-Ocimene	Monoterpene
20	13.41	1.03%	gamma-Terpinene	Monoterpene
21	13.98	0.03%	cis-Linalool oxide (5) (furanoid)	Monoterpenol
22	14.09	0.01%	1-Octanol	Aliphatic Alcohol
23	14.47	0.18%	Isoterpinolene	Monoterpene
24	14.64	3.72%	Terpinolene	Monoterpene
25	14.84	0.09%	para-Cymenene	Monoterpene
26	15.18	0.01%	alpha-Pinene oxide	Monoterpene Ether
27	15.36	0.53%	Linalool	Monoterpenol
28	16.14	0.03%	Fenchol	Monoterpenol
29	16.40	0.01%	cis-para-Menth-2-en-1-ol	Monoterpenol
30	16.78	0.01%	cis-Limonene oxide	Monoterpene Ether
31	17.10	0.03%	trans-Pinocarveol	Monoterpenol
32	17.35	0.04%	Camphor	Monoterpene Ketone
33	17.81	0.28%	Karahanaenone	Monoterpene Ketone
34	18.17	0.02%	para-Mentha-1,5-dien-8-ol	Monoterpenol
35	18.47	0.04%	Umbellulone	Monoterpene Ketone

*Cypress (Cupressus sempervirens)*

NF-CYPR-21-A

Number	RT	Area %	Compound Name	Chemical Family
36	18.546	0.04%	Borneol	Monoterpene Ketone
37	18.96	1.64%	Terpinen-4-ol	Monoterpenol
38	19.29	0.06%	para-Cymen-8-ol	Monoterpenol
39	19.65	0.51%	alpha-Terpineol	Monoterpenol
40	20.14	0.01%	Verbenone	Monoterpene Ketone
41	21.56	0.02%	beta-Cyclocitral	Monoterpene
42	21.69	0.02%	Methyl carvacrol	Phenylpropanoid
43	22.25	0.03%	Linalyl acetate	Monoterpene Ester
44	23.68	0.10%	Bornyl acetate	Monoterpene Ester
45	24.15	0.34%	Terpinen-4-yl acetate	Monoterpene Ester
46	25.89	0.38%	delta-Terpinyl acetate	Monoterpene Ester
47	26.44	3.26%	alpha-Terpinyl acetate	Monoterpene Ester
48	27.35	0.02%	alpha-Ylangene	Sesquiterpene
49	27.62	0.06%	alpha-Copaene	Sesquiterpene
50	27.85	0.01%	2-epi-alpha-Funebrene	Sesquiterpene
51	28.24	0.03%	beta-Elemene	Sesquiterpene
52	29.22	0.64%	alpha-Cedrene	Sesquiterpene
53	29.41	0.37%	beta-Caryophyllene	Sesquiterpene
54	29.55	0.16%	beta-Cedrene	Sesquiterpene
55	29.86	0.05%	beta-Copaene	Sesquiterpene
56	30.02	0.02%	Thujopsene	Sesquiterpene
57	30.52	0.03%	cis-Muurolo-3,5-diene	Sesquiterpene
58	30.65	0.02%	trans-Muurolo-3,5-diene	Sesquiterpene
59	30.88	0.17%	alpha-Humulene	Sesquiterpene
60	31.17	0.13%	cis-Muurolo-4(14),5-diene	Sesquiterpene
61	31.62	0.04%	trans-Cadina-1(6),4-diene	Sesquiterpene
62	31.75	0.24%	gamma-Muurolo-4-diene	Sesquiterpene
63	31.95	0.51%	Germacrene D	Sesquiterpene
64	32.36	0.01%	1-epi-Bicyclosesquiphellandrene	Monoterpene
65	32.45	0.06%	gamma-Amorphene	Sesquiterpene
66	32.72	0.09%	alpha-Muurolo-4-diene	Sesquiterpene
67	32.89	0.02%	beta-Cadinene	Sesquiterpene
68	33.20	0.08%	alpha-Alaskene	Sesquiterpene
69	33.26	0.12%	gamma-Cadinene	Sesquiterpene
70	33.51	0.39%	delta-Cadinene	Sesquiterpene
71	34.03	0.02%	trans-Cadina-1,4-diene	Sesquiterpene

NF-CYPR-21-A

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Client



Source

Cypress (*Cupressus sempervirens*)

NF-CYPR-20-A

Sample

Cypress (*Cupressus sempervirens*)

Batch #:..... NF-CYPR-20-A

Type:..... Essential Oil

CAS Number:.... 8013-86-3

Nature's Fusions

Client



Website

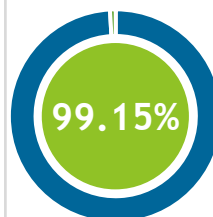
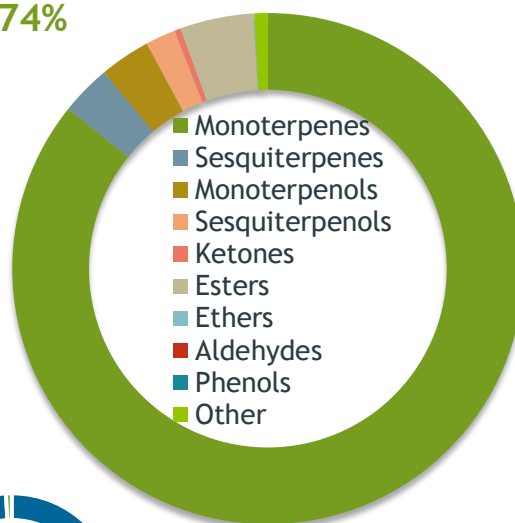


Primary

40.97%alpha-Pinene24.36delta-3-Carene4.49%Limonene

Monoterpenes

85.74%



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 Cypress (*Cupressus sempervirens*)

Internal Number: | EVS-4114



Essential Validation
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Monoterpenes	85.74%	85.74%
Sesquiterpenes	3.18%	3.18%
Monoterpenols	3.22%	3.22%
Sesquiterpenols	1.91%	1.91%
Ketones	0.40%	0.40%
Esters	4.64%	4.64%
Ethers	0.06%	0.06%
Aldehydes	0.00%	0.00%
Phenols	0.00%	0.00%
Other	0.85%	0.85%

Client

Nature's FUSIONS
ESSENTIAL OILS

Source

Cypress (*Cupressus sempervirens*)

NF-CYPR-20-A

Total Percentage		99.15%		
Number	RT	Area %	Compound Name	Chemical Family
1	6.47	0.02%	Cyclofenchene	Monoterpene
2	7.22	0.07%	Bornylene	Monoterpene
3	7.84	0.23%	Tricyclene	Monoterpene
4	8.01	0.78%	alpha-Thujene	Monoterpene
5	8.32	40.97%	alpha-Pinene	Monoterpene
6	8.81	0.95%	alpha-Fenchene	Monoterpene
7	8.87	0.33%	Camphene	Monoterpene
8	9.04	0.02%	Thuja-2,4(10)-diene	Monoterpene
9	9.82	1.28%	Sabinene	Monoterpene
10	9.98	1.42%	beta-Pinene	Monoterpene
11	10.57	3.33%	Myrcene	Monoterpene
12	10.92	0.01%	2-Carene	Monoterpene
13	11.23	0.14%	alpha-Phellandrene	Monoterpene
14	11.37	24.36%	delta-3-Carene	Monoterpene
15	11.62	0.05%	1,4-Cineole	Monoterpene Ether
16	11.69	0.73%	alpha-Terpinene	Monoterpene
17	11.81	0.06%	meta-Cymene	Monoterpene
18	12.02	0.71%	ortho-Cymene	Monoterpene
19	12.23	4.49%	Limonene	Monoterpene
20	12.61	0.10%	(Z)-beta-Ocimene	Monoterpene
21	13.07	0.04%	(E)-beta-Ocimene	Monoterpene
22	13.54	1.19%	gamma-Terpinene	Monoterpene
23	14.61	0.21%	Isoterpinolene	Monoterpene
24	14.78	4.18%	Terpinolene	Monoterpene
25	14.97	0.12%	para-Cymenene	Monoterpene
26	15.33	0.01%	alpha-Pinene oxide	Monoterpene Ether
27	15.49	0.63%	Linalool	Monoterpenol
28	17.24	0.03%	trans-Pinocarveol	Monoterpenol
29	17.50	0.04%	Camphor	Monoterpene Ketone
30	17.95	0.32%	Karahanaenone	Monoterpene Ketone
31	18.62	0.04%	Umbellulone	Monoterpene Ketone
32	18.71	0.04%	para-Mentha-1,5-dien-8-ol	Monoterpenol
33	19.10	1.88%	Terpinen-4-ol	Monoterpenol
34	19.43	0.07%	para-Cymen-8-ol	Monoterpenol
35	19.79	0.57%	alpha-Terpineol	Monoterpenol



Cypress (Cupressus sempervirens)

NF-CYPR-20-A

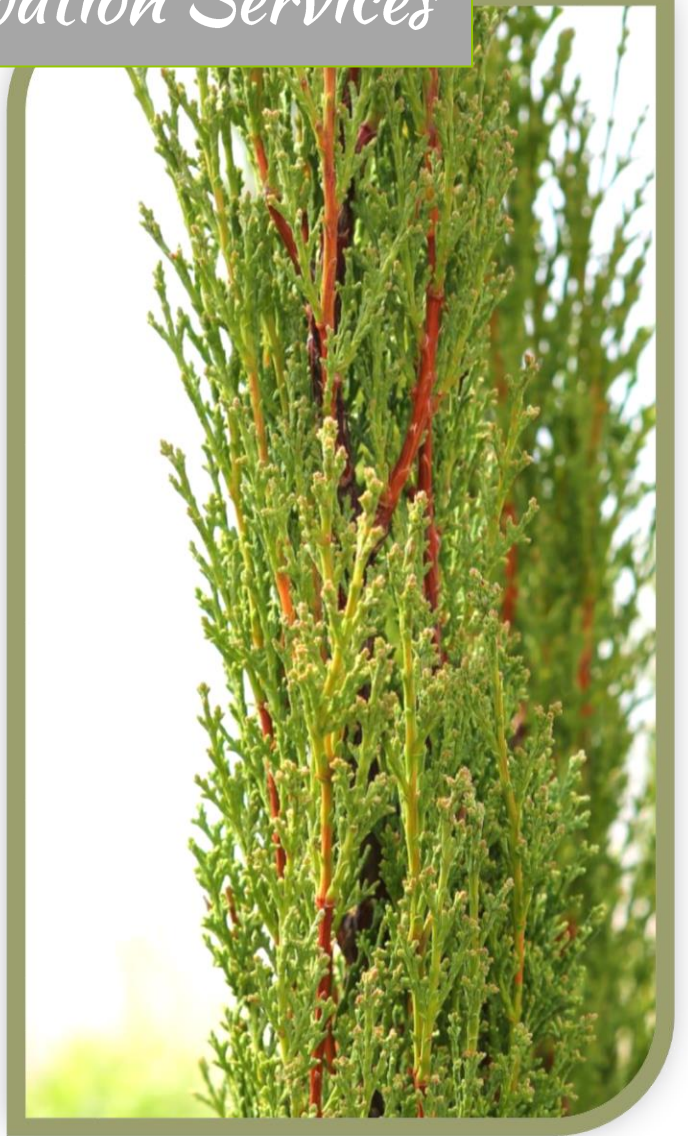
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NF-CYPR-20-A



Essential Validation Services





Sample:

Client: | Nature's Fusions
Sample: | Cypress (Cupressus sempervirens)
Batch # | 1507496
CAS Number | 8013-86-3
Type: | Essential Oil

Conclusion:

- No adulterants, diluents, or contaminants were detected via this method.



X

Validated By:

Essential Validation Services

747 SW 2nd Ave, Gainesville, FL 32601

Phone: 317-361-5044 E-mail: Adam@essentialvalidationservices.com

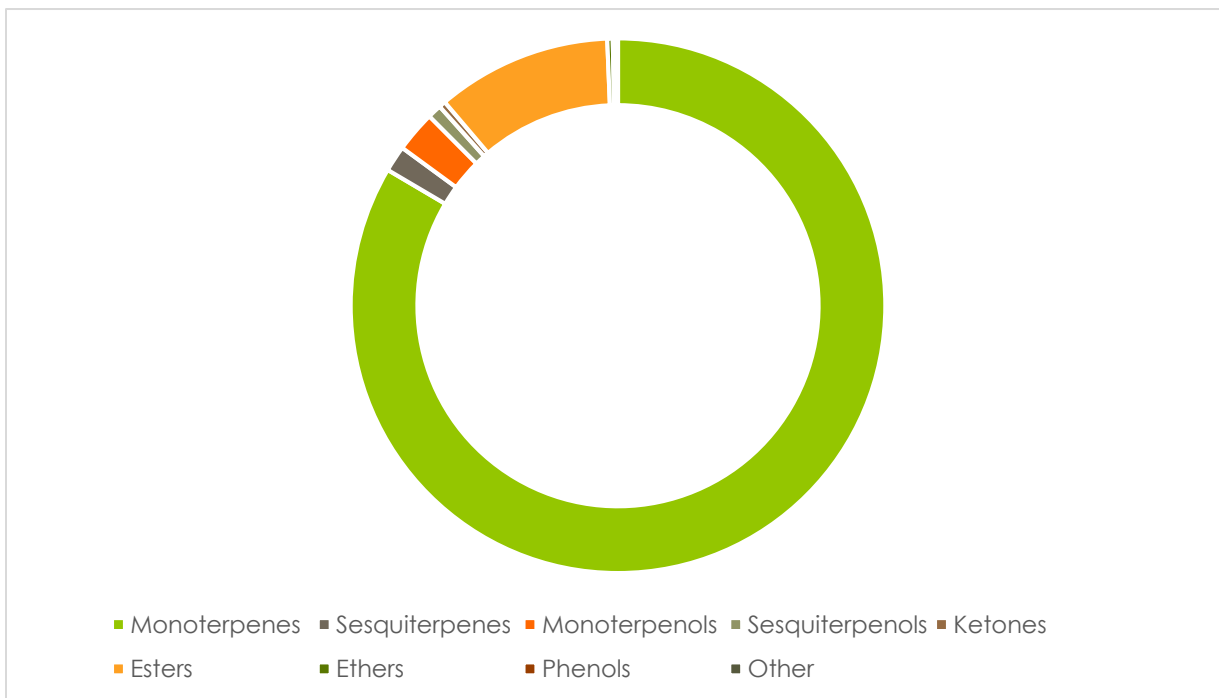
Summary of Analyses

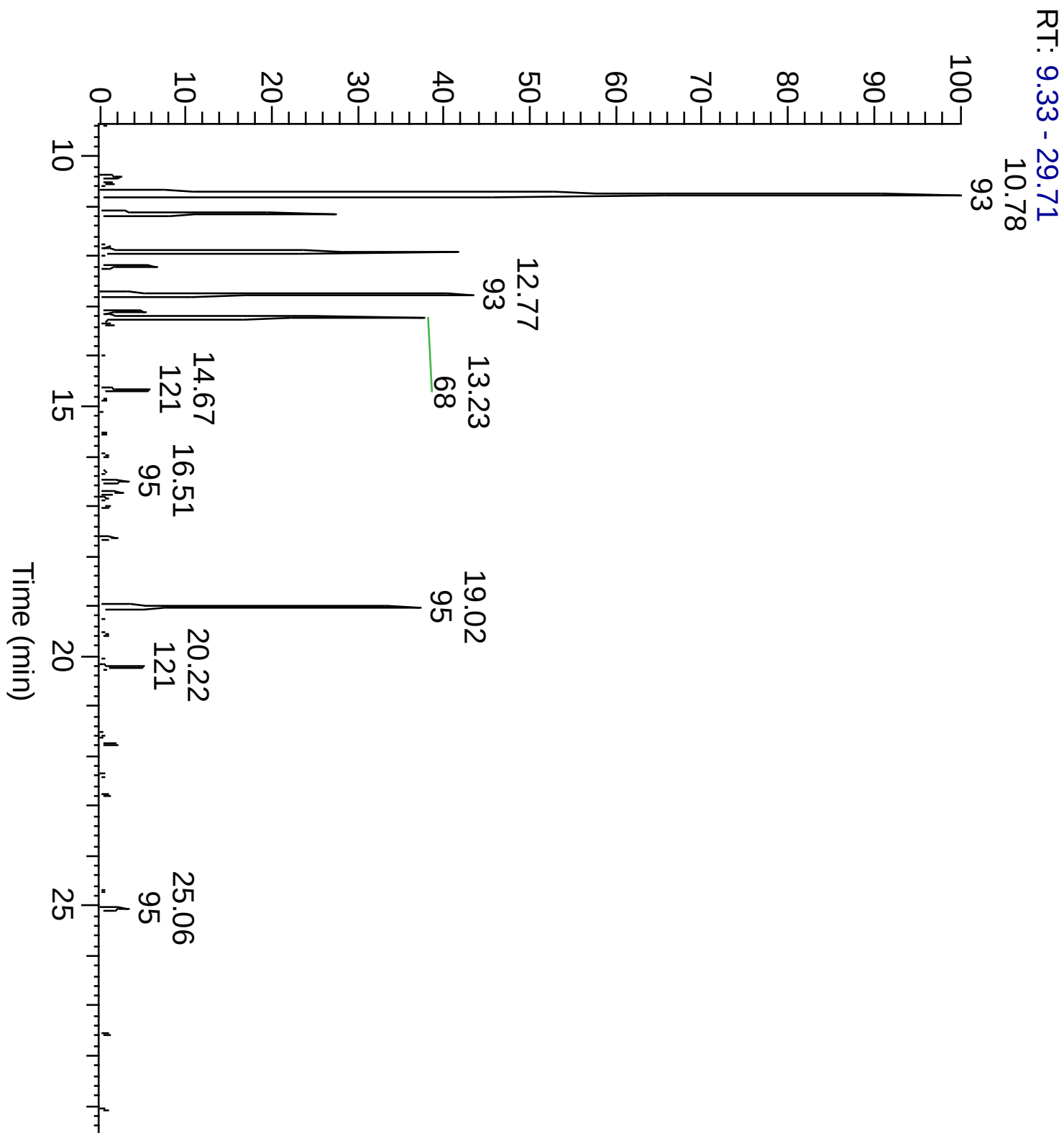
A fresh sample of Cypress (Cupressus sempervirens) Essential Oil (10 uL in .5 to .5 mL Hexane + ETOH) was prepared and analyzed via split injection GC/EI-MS.



Main Compounds	Percentages
alpha-Pinene	39.90%
delta-3-Carene	10.86%
beta-Pinene	10.34%
Limonene	9.34%
Bornyl acetate	8.77%
Camphene	6.67%
Myrcene	1.39%
Terpinolene	1.27%
para-Cymene	1.22%
alpha-Terpinyl acetate	1.14%
Borneol	0.79%
Terpinen-4-ol	0.65%
Tricyclene	0.62%

Monoterpenes	Sesquiterpenes	Monoterpenols	Sesquiterpenols	Ketones
83.18%	1.57%	2.47%	0.84%	0.40%
Esters	Ethers	Aldehydes	Phenols	Other
10.54%	0.33%	0.09%	0.00%	0.22%







Total Percentage	99.69%				
Peak Number	RT	Area %	Compound Name	RI	Chemical Family
1	9.36	0.18%	Santene	891.33	Monoterpenes
2	9.92	0.03%	Bornylene	902.50	Other
3	10.41	0.62%	Tricyclene	923.20	Monoterpenes
4	10.53	0.41%	alpha-Thujene	927.80	Monoterpenes
5	10.78	39.90%	alpha-Pinene	936.10	Monoterpenes
6	11.15	6.67%	Camphene	953.30	Monoterpenes
7	11.80	0.27%	Sabinene	973.00	Monoterpenes
8	11.91	10.34%	beta-Pinene	977.70	Monoterpenes
9	12.20	1.39%	Myrcene	989.20	Monoterpenes
10	12.59	0.13%	alpha-Phellandrene	1004.10	Monoterpenes
11	12.77	10.86%	delta-3-Carene	1011.30	Monoterpenes
12	12.91	0.08%	alpha-Terpinene	1017.10	Monoterpenes
13	13.10	1.22%	para-Cymene	1024.30	Monoterpenes
14	13.23	9.34%	Limonene	1029.50	Monoterpenes
15	13.23	Co-Eluting	beta-Phellandrene	1030.00	Monoterpenes
16	13.23	Co-Eluting	1,8-Cineole	1031.80	Ethers
17	13.37	0.35%	(Z)-beta-Ocimene	1037.80	Monoterpenes
18	13.95	0.15%	gamma-Terpinene	1063.71	Monoterpenes
19	14.67	1.27%	Terpinolene	1089.43	Monoterpenes
20	14.86	0.19%	Linalool	1099.00	Monoterpenols
21	14.97	0.17%	Perillene	1099.20	Ethers
22	15.14	0.09%	alpha-Campholenal	1125.29	Aldehydes
23	15.54	0.19%	Alloocimene	1129.90	Other
24	15.91	0.09%	trans-Pinocarveol	1144.10	Monoterpenols
25	15.99	0.33%	Camphor	1153.86	Ketones
26	16.32	0.19%	Isoborneol	1158.20	Monoterpenols
27	16.51	0.79%	Borneol	1168.71	Monoterpenols
28	16.73	0.65%	Terpinen-4-ol	1180.57	Monoterpenols
29	16.85	0.18%	para-Cymen-8-ol	1184.43	Monoterpenols
30	17.00	0.28%	alpha-Terpineol	1191.71	Monoterpenols
31	17.16	0.07%	Myrtenol	1198.00	Monoterpenols
32	17.31	0.07%	Eucarvone	1214.00	Ketones
33	17.64	0.41%	Fenchyl acetate	1222.00	Esters
34	19.02	8.77%	Bornyl acetate	1288.29	Esters
35	19.23	0.10%	trans-Pinocarvyl acetate	1305.00	Esters
36	19.47	0.03%	Carvacrol	1306.29	Monoterpenols
37	20.01	0.12%	Terpinen-4-yl acetate	1347.50	Esters
38	20.22	1.14%	alpha-Terpinyl acetate	1353.00	Esters
39	20.31	0.05%	trans-B-Terpinyl acetate	1353.30	Synthetic
40	20.87	0.04%	alpha-Cubebene	1355.71	Sesquiterpenes
41	21.13	0.04%	alpha-Ylangene	1371.33	Sesquiterpenes
42	21.56	0.17%	alpha-Copaene	1379.00	Sesquiterpenes



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