

Client



Source

Tea Tree (*Melaleuca alternifolia*)

NF-TEAT-21-A

Sample

Tea Tree (*Melaleuca alternifolia*)

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

Type:..... Essential Oil

CAS Number:.... 68647-73-4

Nature's Fusions

Client



Website



Primary

46.49%

Terpinen-4-ol

17.69%

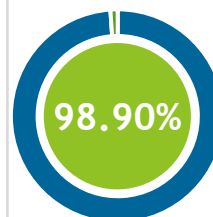
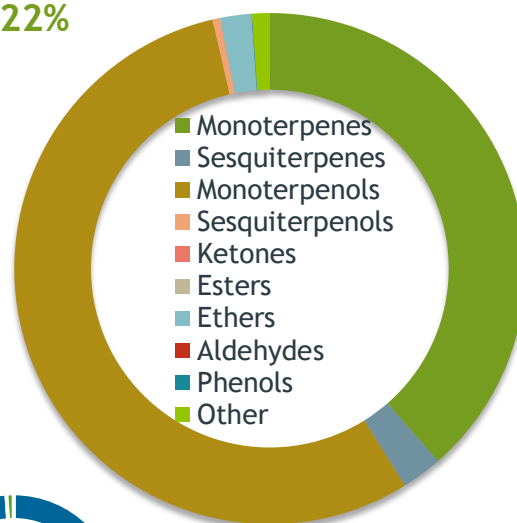
gamma-Terpinene

9.03%

alpha-Terpinene

Monoterpenols

55.22%



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 Tea Tree (*Melaleuca alternifolia*)

Internal Number: | EVS-4288



Essential Validation
Services

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Gainesville, FL 32601

317.361.5044 |

<https://essentialvalidationservices.com/>

Monoterpenes	38.55%	38.55%
Sesquiterpenes	2.57%	2.57%
Monoterpenols	55.22%	55.22%
Sesquiterpenols	0.47%	0.47%
Ketones	0.01%	0.01%
Esters	0.00%	0.00%
Ethers	1.97%	1.97%
Aldehydes	0.00%	0.00%
Phenols	0.04%	0.04%
Other	1.11%	1.11%

Client

Nature's FUSIONS
ESSENTIAL OILS

Source

Tea Tree (*Melaleuca alternifolia*)

NF-TEAT-21-A

Total Percentage		98.90%		
Number	RT	Area %	Compound Name	Chemical Family
1	5.65	0.01%	cis-Hex-3-en-1-ol	Aliphatic Alcohol
2	7.70	0.02%	Hashishene	Monoterpene
3	7.94	0.42%	alpha-Thujene	Monoterpene
4	8.20	3.49%	alpha-Pinene	Monoterpene
5	8.75	0.05%	alpha-Fenchene	Monoterpene
6	8.80	0.08%	Camphene	Monoterpene
7	9.75	0.17%	Sabinene	Monoterpene
8	9.91	0.38%	beta-Pinene	Monoterpene
9	10.26	0.02%	3-p-Menthene	Monoterpene
10	10.50	0.48%	Myrcene	Monoterpene
11	11.03	0.01%	Pseudolimonene	Monoterpene
12	11.14	0.43%	alpha-Phellandrene	Monoterpene
13	11.25	0.09%	delta-3-Carene	Monoterpene
14	11.63	9.03%	alpha-Terpinene	Monoterpene
15	11.95	1.80%	para-Cymene	Monoterpene
16	12.16	1.37%	Limonene	Monoterpene
17	12.25	1.97%	1,8-Cineole	Monoterpene Ether
18	13.00	0.05%	(Z)-beta-Ocimene	Monoterpene
19	13.52	17.69%	gamma-Terpinene	Monoterpene
20	13.99	0.05%	trans-Sabinene hydrate	Monoterpenol
21	14.05	0.07%	p-Mentha-3,8-diene	Monoterpene
22	14.34	0.04%	para-Cresol	Phenol
23	14.70	2.84%	Terpinolene	Monoterpene
24	14.89	0.05%	para-Cymenene	Monoterpene
25	15.39	0.11%	cis-Sabinene hydrate	Monoterpenol
26	15.91	0.01%	1,3,8-para-Menthatriene	Monoterpene
27	16.20	0.02%	Fenchol	Monoterpenol
28	16.45	0.17%	cis-para-Menth-2-en-1-ol	Monoterpenol
29	17.01	0.10%	Terpinen-1-ol	Monoterpenol
30	17.15	0.42%	trans-Pinocarveol	Monoterpenol
31	17.30	0.25%	trans-para-Menth-2-en-1-ol	Monoterpenol
32	17.45	0.06%	12.94 Thujanol<iso-3->	0.00
33	17.63	0.10%	cis-beta-Terpineol	Monoterpenol
34	18.06	0.01%	Pinocamphone	Monoterpene Ketone
35	18.64	0.83%	Isoborneol	Monoterpenol

Tea Tree (*Melaleuca alternifolia*)

NF-TEAT-21-A

Number	RT	Area %	Compound Name	Chemical Family
36	19.19	46.49%	Terpinen-4-ol	Monoterpenol
37	19.37	0.09%	para-Cymen-8-ol	Monoterpenol
38	19.77	6.45%	alpha-Terpineol	Monoterpenol
39	19.96	0.06%	gamma-Terpineol	Monoterpenol
40	20.38	0.07%	trans-Piperitol	Monoterpenol
41	21.12	0.01%	Nerol	Monoterpenol
42	25.83	0.10%	delta-Elemene	Sesquiterpene
43	26.49	0.02%	alpha-Cubebene	Sesquiterpene
44	27.48	0.02%	Isodene	Sesquiterpene
45	27.68	0.05%	alpha-Copaene	Sesquiterpene
46	28.30	0.01%	beta-Elemene	Sesquiterpene
47	28.99	0.11%	alpha-Gurjunene	Sesquiterpene
48	29.47	0.12%	beta-Caryophyllene	Sesquiterpene
49	29.80	0.02%	Longifolene	Sesquiterpene
50	30.06	0.03%	beta-Gurjunene	Sesquiterpene
51	30.25	0.47%	Aromadendrene	Sesquiterpene
52	30.70	0.05%	trans-Muurolo-3,5-diene	Sesquiterpene
53	30.94	0.04%	alpha-Humulene	Sesquiterpene
54	31.13	0.17%	allo-Aromadendrene	Sesquiterpene
55	31.67	0.12%	trans-Cadina-1(6),4-diene	Sesquiterpene
56	31.80	0.01%	gamma-Muurolo-3,5-diene	Sesquiterpene
57	32.30	0.14%	alpha-Selinene	Sesquiterpene
58	32.44	0.37%	Viridiflorene	Sesquiterpene
59	32.60	0.22%	Bicyclogermacrene	Sesquiterpene
60	32.78	0.04%	alpha-Muurolo-3,5-diene	Sesquiterpene
61	33.57	0.39%	delta-Cadinene	Sesquiterpene
62	34.08	0.07%	trans-Cadina-1,4-diene	Sesquiterpene
63	35.47	0.04%	Palustrol	Sesquiterpenol
64	35.74	0.04%	Spathulenol	Sesquiterpenol
65	36.09	0.16%	Maaliol	Sesquiterpenol
66	36.41	0.09%	Viridiflorol	Sesquiterpenol
67	36.79	0.02%	Ledol	Sesquiterpenol
68	36.90	0.03%	Rosifoliol	Sesquiterpenol
69	37.90	0.03%	Isospathulenol	Sesquiterpenol
70	38.27	0.05%	1-epi-Cubenol	Sesquiterpenol
71	38.43	0.01%	alpha-Muurolo-3,5-diene	Sesquiterpenol



Source



NF-TEAT-21-A

Client



Source

Tea Tree (*Melaleuca alternifolia*)

NF-TEAT-20-C

Sample

Tea Tree (*Melaleuca alternifolia*)

Batch #:..... NF-TEAT-20-C

Type:..... Essential Oil

CAS Number:.... 68647-73-4

Nature's Fusions

Client



Website



Primary

40.81%

Terpinen-4-ol

17.97

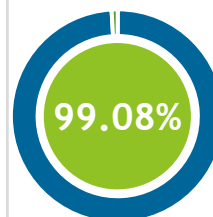
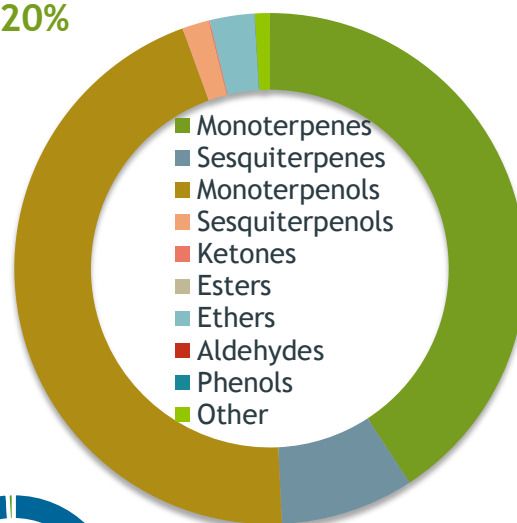
gamma-Terpinene

9.26%

alpha-Terpinene

Monoterpenols

45.20%



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 Tea Tree (*Melaleuca alternifolia*)

Internal Number: | EVS-4102



Essential Validation
Services

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Monoterpenes	40.80%	40.80%
Sesquiterpenes	8.45%	8.45%
Monoterpenols	45.20%	45.20%
Sesquiterpenols		1.69%
Ketones		0.07%
Esters		0.02%
Ethers		2.81%
Aldehydes		0.00%
Phenols		0.02%
Other		0.94%

Client


Nature's FUSIONS
 ESSENTIAL OILS

Source

*Tea Tree (Melaleuca alternifolia)*

NF-TEAT-20-C

Total Percentage		99.08%		
Number	RT	Area %	Compound Name	Chemical Family
1	5.72	0.02%	cis-Hex-3-en-1-ol	Aliphatic Alcohol
2	8.03	0.97%	alpha-Thujene	Monoterpene
3	8.29	2.50%	alpha-Pinene	Monoterpene
4	8.90	0.01%	Camphene	Monoterpene
5	9.85	0.16%	Sabinene	Monoterpene
6	10.01	0.76%	beta-Pinene	Monoterpene
7	10.60	0.88%	Myrcene	Monoterpene
8	11.25	0.49%	alpha-Phellandrene	Monoterpene
9	11.74	9.26%	alpha-Terpinene	Monoterpene
10	12.06	2.70%	para-Cymene	Monoterpene
11	12.28	1.68%	Limonene	Monoterpene
12	12.36	2.81%	1,8-Cineole	Monoterpene Ether
13	13.63	17.97%	gamma-Terpinene	Monoterpene
14	14.10	0.05%	trans-Sabinene hydrate	Monoterpenol
15	14.81	3.36%	Terpinolene	Monoterpene
16	15.01	0.05%	para-Cymenene	Monoterpene
17	15.52	0.13%	Linalool	Monoterpenol
18	16.57	0.25%	cis-para-Menth-2-en-1-ol	Monoterpenol
19	17.01	0.01%	para-Menthatriene	Monoterpene
20	17.13	0.02%	Terpinen-1-ol	Monoterpenol
21	17.42	0.20%	trans-para-Menth-2-en-1-ol	Monoterpenol
22	17.53	0.04%	Camphor	Monoterpene Ketone
23	19.30	40.81%	Terpinen-4-ol	Monoterpenol
24	19.49	0.07%	para-Cymen-8-ol	Monoterpenol
25	19.86	3.43%	alpha-Terpineol	Monoterpenol
26	20.50	0.16%	trans-Piperitol	Monoterpenol
27	21.24	0.01%	Nerol	Monoterpenol
28	22.45	0.03%	Piperitone	Monoterpene Ketone
29	23.38	0.07%	trans-Ascaridol glycol	Monoterpenol
30	25.95	0.22%	delta-Elementene	Sesquiterpene
31	26.62	0.05%	alpha-Cubebene	Sesquiterpene
32	27.60	0.06%	Isodene	Sesquiterpene
33	27.81	0.17%	alpha-Copaene	Sesquiterpene
34	27.97	0.02%	Isodene	Sesquiterpene
35	28.42	0.02%	beta-Elementene	Sesquiterpene

Tea Tree (*Melaleuca alternifolia*)

NF-TEAT-20-C

Number	RT	Area %	Compound Name	Chemical Family
36	28.543	0.02%	Sativene	Sesquiterpene
37	28.93	0.02%	Methyl eugenol	Phenylpropanoid
38	29.12	0.33%	alpha-Gurjunene	Sesquiterpene
39	29.60	0.40%	beta-Caryophyllene	Sesquiterpene
40	29.92	0.07%	Longifolene	Sesquiterpene
41	30.19	0.08%	beta-Gurjunene	Sesquiterpene
42	30.39	1.34%	Aromadendrene	Sesquiterpene
43	30.53	0.01%	beta-Caryophyllene	Sesquiterpene
44	30.69	0.15%	alpha-Guaiene	Sesquiterpene
45	30.83	0.17%	trans-Muurolo-3,5-diene	Sesquiterpene
46	31.07	0.12%	alpha-Humulene	Sesquiterpene
47	31.26	0.57%	allo-Aromadendrene	Sesquiterpene
48	31.80	0.41%	trans-Cadina-1(6),4-diene	Sesquiterpene
49	31.93	0.03%	gamma-Muuroloene	Sesquiterpene
50	32.43	0.40%	beta-Guaiene	Sesquiterpene
51	32.57	1.20%	Viridiflorene	Sesquiterpene
52	32.73	0.51%	Bicyclogermacrene	Sesquiterpene
53	32.91	0.15%	alpha-Muuroloene	Sesquiterpene
54	33.45	0.02%	gamma-Cadinene	Sesquiterpene
55	33.70	1.32%	delta-Cadinene	Sesquiterpene
56	33.79	0.07%	trans-Calamenene	Sesquiterpene
57	33.85	0.31%	Zonarene	Sesquiterpene
58	34.21	0.23%	trans-Cadina-1,4-diene	Sesquiterpene
59	35.07	0.02%	cis-Sesquisabinene hydrate	Monoterpene Ester
60	35.32	0.14%	Maaliol	Sesquiterpenol
61	35.61	0.09%	Palustrol	Sesquiterpenol
62	35.87	0.09%	Spathulenol	Sesquiterpenol
63	36.22	0.46%	Viridiflorol	Sesquiterpenol
64	36.34	0.04%	Gleenol	Sesquiterpenol
65	36.93	0.06%	Ledol	Sesquiterpenol
66	37.69	0.19%	Rosifoliol	Sesquiterpenol
67	37.85	0.31%	1,10-di-epi-Cubenol	Sesquiterpenol
68	38.03	0.09%	Isospathulenol	Sesquiterpenol
69	38.40	0.17%	1-epi-Cubenol	Sesquiterpenol
70	38.56	0.05%	alpha-Muurolol	Sesquiterpenol

Tea Tree (*Melaleuca alternifolia*)

NF-TEAT-20-C

Client

Nature's FUSIONS
ESSENTIAL OILS

Source

Tea Tree (*Melaleuca alternifolia*)
NF-TEAT-19-A

Sample

Tea Tree (*Melaleuca alternifolia*)

Batch #:..... NF-TEAT-19-A

Type:..... Essential Oil

CAS Number:.... 68647-73-4

Nature's Fusions

Client

Nature's FUSIONS
ESSENTIAL OILS

Website

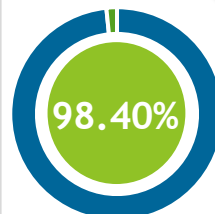
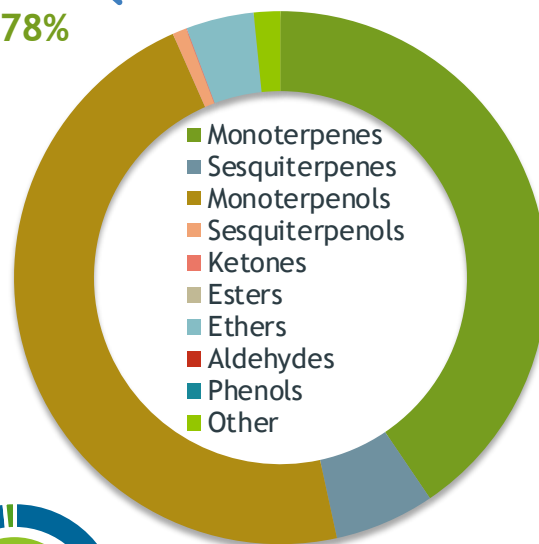


Primary

42.96%Terpinen-4-ol18.19%gamma-Terpinene9.42%alpha-Terpinene

Monoterpenols

46.78%

Percentage
Identified

Result

APPROVED

Conclusion

No adulterants, diluents, or contaminants were detected via this method. This oil meets the expected profile for genuine essential oil of Tea Tree (*Melaleuca alternifolia*)

Internal Number: | EVS-2890



Essential Validation Services

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<https://essentialvalidation.com/>

adam@essentialvalidation.com

Monoterpenes	40.52%	40.52%
Sesquiterpenes	6.08%	6.08%
Monoterpenols	46.78%	46.78%
Sesquiterpenols	0.84%	0.84%
Ketones	0.05%	0.05%
Esters	0.00%	0.00%
Ethers	4.12%	4.12%
Aldehydes	0.00%	0.00%
Phenols	0.00%	0.00%
Other	1.61%	1.61%

Client


Nature's FUSIONS
 ESSENTIAL OILS

Source



Tea Tree (Melaleuca alternifolia)
 NF-TEAT-19-A

Total Percentage		98.40%			
Number	RT	Area %	Compound Name	RI	Chemical Family
1	9.78	0.01%	cis-Hex-3-en-1-ol	850.00	Aliphatic Alcohol
2	12.58	0.90%	alpha-Thujene	927.80	Monoterpene
3	12.86	2.24%	alpha-Pinene	936.10	Monoterpene
4	14.53	0.24%	Sabinene	973.00	Monoterpene
5	14.66	0.72%	beta-Pinene	974.00	Monoterpene
6	15.26	0.87%	Myrcene	989.20	Monoterpene
7	15.83	0.45%	alpha-Phellandrene	1002.00	Monoterpene
8	16.36	9.42%	alpha-Terpinene	1014.00	Monoterpene
9	16.67	2.45%	para-Cymene	1024.30	Monoterpene
10	16.86	1.84%	Limonene	1029.50	Monoterpene
11	16.96	4.12%	1,8-Cineole	1031.80	Monoterpene Ether
12	18.16	18.19%	gamma-Terpinene	1054.00	Monoterpene
13	19.32	3.20%	Terpinolene	1092.10	Monoterpene
14	19.73	0.08%	Linalool	1099.00	Monoterpenol
15	20.63	0.29%	cis-para-Menth-2-en-1-ol	1118.25	Monoterpenol
16	21.35	0.20%	trans-para-Menth-2-en-1-ol	1141.75	Monoterpenol
17	22.95	42.96%	Terpinen-4-ol	1180.57	Monoterpenol
18	23.07	0.07%	para-Cymen-8-ol	1185.25	Monoterpenol
19	23.32	3.06%	alpha-Terpineol	1191.71	Monoterpenol
20	23.92	0.09%	trans-Piperitol	1208.50	Monoterpenol
21	25.62	0.05%	Piperitone	1258.50	Monoterpene Ketone
22	26.12	0.03%	trans-Ascaridol glycol	1272.50	Monoterpenol
23	28.54	0.09%	delta-Elemene	1335.83	Sesquiterpene
24	29.88	0.17%	alpha-Copaene	1379.00	Sesquiterpene
25	31.01	0.32%	alpha-Gurjunene	1412.00	Sesquiterpene
26	31.34	0.38%	beta-Caryophyllene	1427.14	Sesquiterpene
27	31.85	0.07%	alpha-Guaiene	1438.67	Sesquiterpene
28	31.97	1.08%	Aromadendrene	1449.80	Sesquiterpene
29	32.44	0.10%	alpha-Humulene	1461.43	Sesquiterpene
30	32.66	0.47%	allo-Aromadendrene	1471.00	Sesquiterpene
31	33.53	0.19%	Bicyclogermacrene	1490.71	Sesquiterpene
32	33.74	1.77%	Viridiflorene	1494.14	Sesquiterpene
33	34.50	1.10%	delta-Cadinene	1524.14	Sesquiterpene
34	34.59	0.18%	Zonarene	1527.00	Sesquiterpene
35	34.79	0.16%	trans-Calamenene	1529.50	Sesquiterpene

Tea Tree (*Melaleuca alternifolia*)

NF-TEAT-19-A

[illegible]



Essential Validation Services



Sample:

Client: | Nature's Fusions
Sample: | Tea Tree (Melaleuca alternifolia)
Batch # | 10377742
CAS Number | 68647-73-4
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

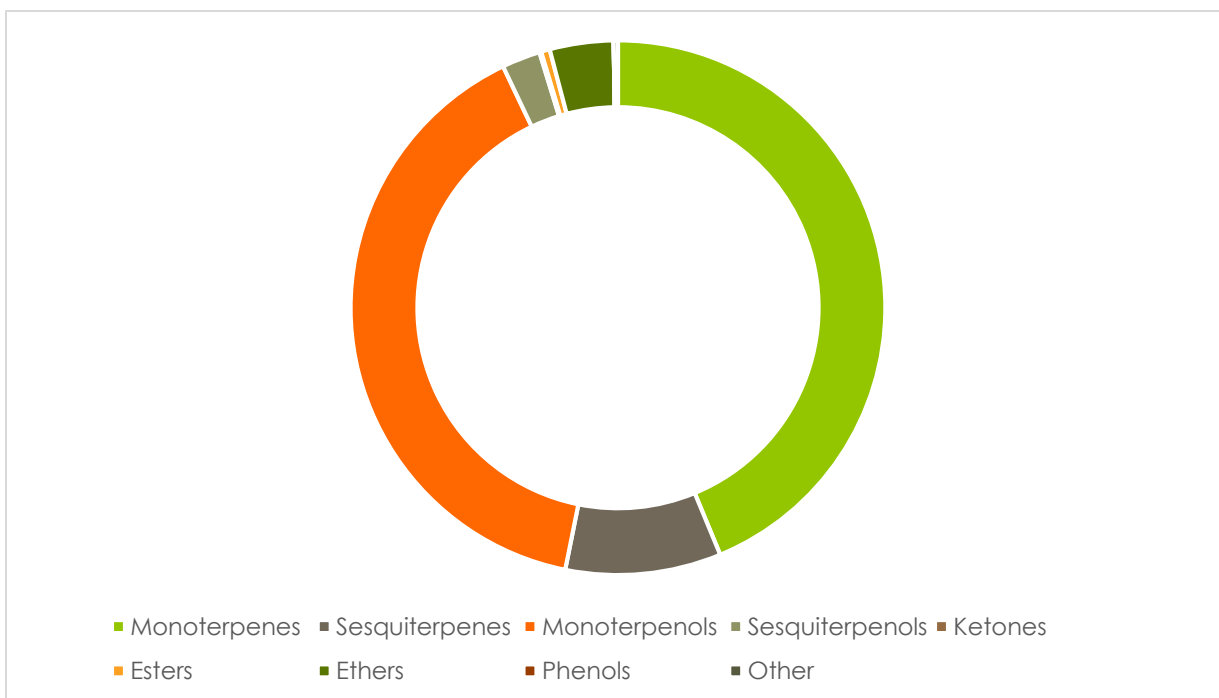
Phone: 317-361-5044 E-mail: Adam@essentialvalidationservices.com

Summary of Analyses

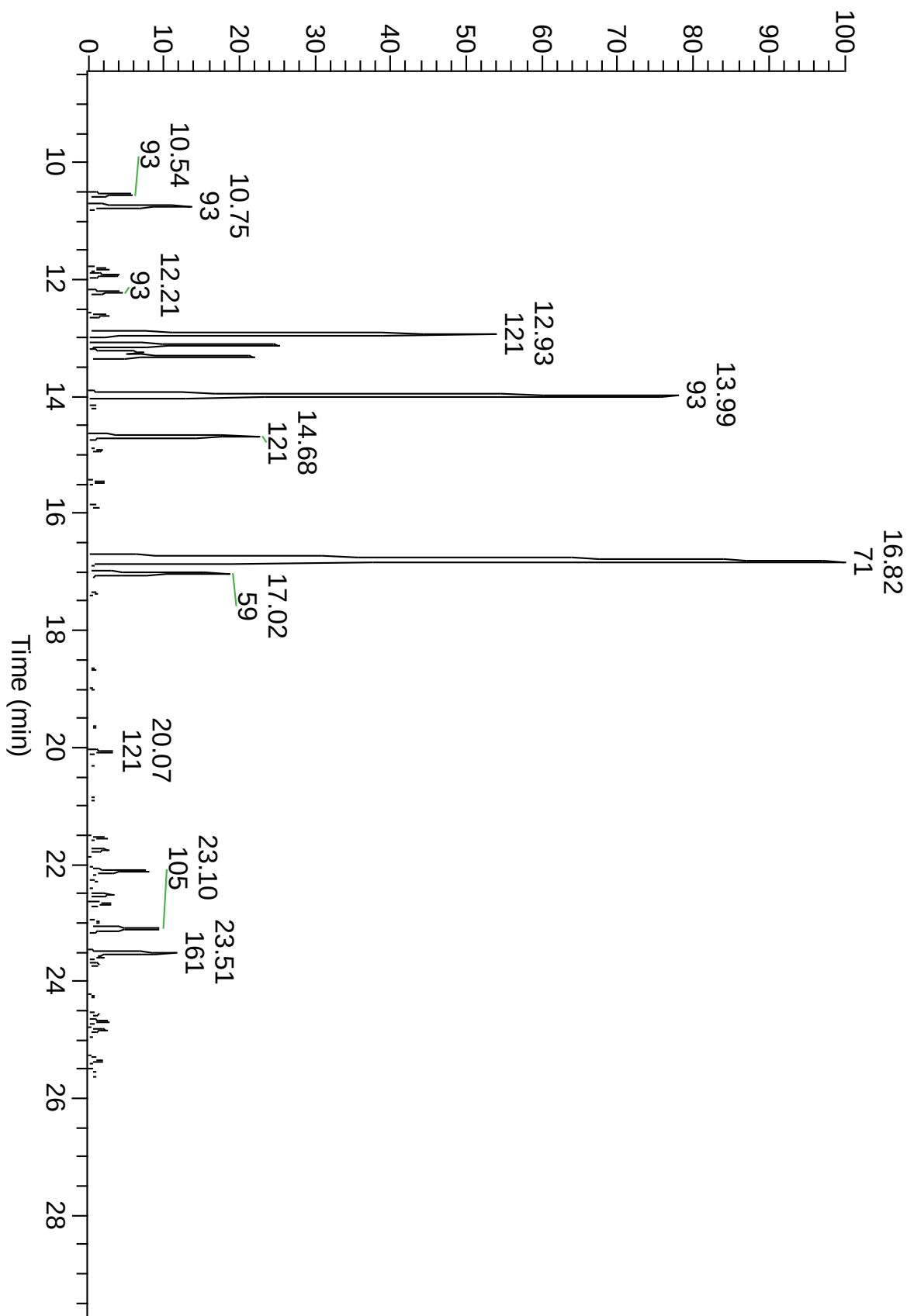
A fresh sample of Tea Tree (Melaleuca alternifolia) Essential Oil (10 uL in .5 to .5 mL Hexane + ETOH) was prepared and analyzed via split injection GC/EI-MS.

Main Compounds	Percentages
Terpinen-4-ol	34.55%
gamma-Terpinene	17.35%
alpha-Terpinene	10.32%
para-Cymene	4.60%
Terpinolene	3.88%
1,8-Cineole	3.83%
alpha-Terpineol	3.29%
alpha-Pinene	2.46%
Viridiflorene	2.02%
delta-Cadinene	1.97%
Aromadendrene	1.59%
Limonene	1.44%
alpha-Thujene	1.01%

Monoterpenes	Sesquiterpenes	Monoterpenols	Sesquiterpenols	Ketones
43.48%	9.35%	39.51%	2.31%	0.11%
Esters	Ethers	Aldehydes	Phenols	Other
0.52%	3.83%	0.00%	0.00%	0.26%



RT: 8.42 - 29.84



Total Percentage	99.37%				
Peak Number	RT	Area %	Compound Name	RI	Chemical Family
1	10.54	1.01%	alpha-Thujene	927.80	Monoterpenes
2	10.75	2.46%	alpha-Pinene	936.10	Monoterpenes
3	11.81	0.45%	Sabinene	973.00	Monoterpenes
4	11.92	0.74%	beta-Pinene	977.70	Monoterpenes
5	12.21	0.75%	Myrcene	989.20	Monoterpenes
6	12.61	0.48%	alpha-Phellandrene	1004.10	Monoterpenes
7	12.93	10.32%	alpha-Terpinene	1017.10	Monoterpenes
8	13.12	4.60%	para-Cymene	1024.30	Monoterpenes
9	13.24	1.44%	Limonene	1029.50	Monoterpenes
10	13.24	Co-Eluting	beta-Phellandrene	1030.00	Monoterpenes
11	13.31	3.83%	1,8-Cineole	1031.80	Ethers
12	13.99	17.35%	gamma-Terpinene	1063.71	Monoterpenes
13	14.18	0.24%	cis-Sabinene hydrate	1066.50	Monoterpenols
14	14.68	3.88%	Terpinolene	1089.43	Monoterpenes
15	14.92	0.38%	trans-Sabinene hydrate	1098.10	Monoterpenols
16	15.46	0.40%	trans-para-Menth-2-en-1-ol	1141.75	Monoterpenols
17	15.87	0.34%	cis-beta-Terpineol	1144.20	Monoterpenols
18	16.82	34.55%	Terpinen-4-ol	1180.57	Monoterpenols
19	17.02	3.29%	alpha-Terpineol	1191.71	Monoterpenols
20	17.13	0.11%	cis-Piperitol	1194.80	Monoterpenols
21	17.36	0.20%	trans-Piperitol	1208.50	Monoterpenols
22	18.38	0.11%	Piperitone	1259.60	Ketones
23	18.66	0.15%	UK	#N/A	#N/A
24	19.00	0.11%	UK	#N/A	#N/A
25	20.07	0.52%	alpha-Terpinyl acetate	1353.00	Esters
26	20.31	0.10%	alpha-Cubebene	1355.71	Sesquiterpenes
27	20.81	0.08%	alpha-Ylangene	1371.33	Sesquiterpenes
28	20.88	0.22%	alpha-Copaene	1379.00	Sesquiterpenes
29	21.13	0.10%	beta-Cubebene	1390.50	Sesquiterpenes
30	21.55	0.45%	alpha-Gurjunene	1412.00	Sesquiterpenes
31	21.76	0.44%	beta-Caryophyllene	1427.14	Sesquiterpenes
32	21.89	0.07%	trans-alpha-Bergamotene	1435.00	Sesquiterpenes
33	22.12	1.59%	Aromadendrene	1447.71	Sesquiterpenes
34	22.29	0.20%	cis-Muuro-3,5-diene	1453.00	Sesquiterpenes
35	22.38	0.09%	alpha-Humulene	1461.43	Sesquiterpenes
36	22.52	0.56%	allo-Aromadendrene	1471.00	Sesquiterpenes
37	22.67	0.58%	gamma-Muuro-3,5-diene	1478.86	Sesquiterpenes
38	22.98	0.35%	gamma-Elementene	1491.25	Sesquiterpenes
39	23.10	2.02%	Viridiflorene	1494.14	Sesquiterpenes
40	23.51	1.97%	delta-Cadinene	1524.14	Sesquiterpenes
41	23.59	0.28%	trans-Calamenene	1531.60	Sesquiterpenes
42	23.71	0.25%	trans-Cadina-1,4-diene	1532.71	Sesquiterpenes



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