

Client



Source



Ravensara (Ravensara aromatic)
NF-RAVE-21-A

Sample

Ravensara (Ravensara aromatic)
Batch #:..... NF-RAVE-21-A
Type:..... Essential Oil
CAS Number:... 91770-56-8
Nature's Fusions

Client



Website

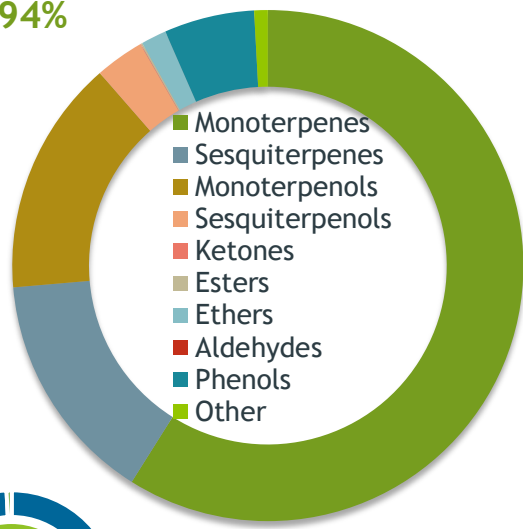


Primary

16.99% Sabinene
16.42% Limonene
10.43% Linalool

Monoterpenes

58.94%



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 Ravensara (Ravensara aromatic)

Internal Number: | EVS-4292



Essential Validation Services

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

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

Alan Christen

Monoterpenes	58.94%	58.94%
Sesquiterpenes	14.70%	14.70%
Monoterpenols	14.94%	14.94%
Sesquiterpenols	3.10%	3.10%
Ketones	0.04%	0.04%
Esters	0.10%	0.10%
Ethers	1.61%	1.61%
Aldehydes	0.00%	0.00%
Phenols	5.71%	5.71%
Other	0.86%	0.86%

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Client


 Nature's FUSIONS
ESSENTIAL OILS

Source

Ravensara (*Ravensara aromatica*)

NF-RAVE-21-A

Total Percentage		99.23%		
Number	RT	Area %	Compound Name	Chemical Family
1	7.12	0.01%	2-Heptanol	Aliphatic Alcohol
2	7.77	0.01%	Tricyclene	Monoterpene
3	7.94	0.57%	alpha-Thujene	Monoterpene
4	8.19	4.20%	alpha-Pinene	Monoterpene
5	8.79	0.63%	Camphene	Monoterpene
6	9.77	16.99%	Sabinene	Monoterpene
7	9.92	4.56%	beta-Pinene	Monoterpene
8	10.30	0.01%	6-Methyl-5-hepten-2-one	Aliphatic Ketone
9	10.50	3.33%	Myrcene	Monoterpene
10	10.85	Co-Eluting	2-Carene	Monoterpene
11	11.04	0.07%	Pseudolimonene	Monoterpene
12	11.14	2.53%	alpha-Phellandrene	Monoterpene
13	11.25	4.08%	delta-3-Carene	Monoterpene
14	11.61	1.29%	alpha-Terpinene	Monoterpene
15	11.73	0.07%	o-Cymene	Monoterpene
16	11.94	0.58%	para-Cymene	Monoterpene
17	12.19	16.42%	Limonene	Monoterpene
18	12.26	1.50%	1,8-Cineole	Monoterpene Ether
19	12.53	1.46%	(Z)-beta-Ocimene	Monoterpene
20	12.99	0.15%	(E)-beta-Ocimene	Monoterpene
21	13.46	1.20%	gamma-Terpinene	Monoterpene
22	13.98	0.13%	trans-Sabinene hydrate	Monoterpenol
23	14.52	0.02%	Isoterpinolene	Monoterpene
24	14.68	0.51%	Terpinolene	Monoterpene
25	15.46	10.43%	Linalool	Monoterpenol
26	16.45	0.06%	cis-para-Menth-2-en-1-ol	Monoterpenol
27	16.70	0.27%	Alloocimene	Monoterpene
28	17.16	0.01%	trans-Pinocarveol	Monoterpenol
29	17.28	0.04%	trans-para-Menth-2-en-1-ol	Monoterpenol
30	17.40	0.01%	Camphor	Monoterpene Ketone
31	18.59	0.26%	Borneol	Monoterpenol
32	19.02	3.46%	Terpinen-4-ol	Monoterpenol
33	19.70	0.51%	alpha-Terpineol	Monoterpenol
34	19.85	2.24%	Methyl chavicol	Phenylpropanoid
35	20.05	0.02%	cis-Pinocarveol	Monoterpenol

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Nature's FUSIONS
 ESSENTIAL OILS

Source



Ravensara (Ravensara aromatic)
 NF-RAVE-21-A

Number	RT	Area %	Compound Name	Chemical Family
36	20.358	0.02%	trans-Piperitol	Monoterpenol
37	22.32	0.02%	Piperitone	Monoterpene Ketone
38	23.72	0.10%	Bornyl acetate	Monoterpene Ester
39	24.07	0.08%	Edulan II, dihydro-	Edulan
40	25.97	0.49%	delta-Elemene	Sesquiterpene
41	26.48	0.37%	alpha-Cubebene	Sesquiterpene
42	26.67	0.04%	Eugenol	Phenylpropanoid
43	27.29	0.01%	Longicyclene	Sesquiterpene
44	27.40	0.01%	alpha-Ylangene	Sesquiterpene
45	27.67	1.04%	alpha-Copaene	Sesquiterpene
46	27.98	0.06%	beta-Bourbonene	Sesquiterpene
47	28.21	0.36%	beta-Cubebene	Sesquiterpene
48	28.29	0.70%	beta-Elemene	Sesquiterpene
49	28.83	3.43%	Methyl eugenol	Phenylpropanoid
50	28.98	0.04%	alpha-Gurjunene	Sesquiterpene
51	29.48	5.07%	cis-Caryophyllene	Sesquiterpene
52	29.91	0.19%	beta-Copaene	Sesquiterpene
53	30.24	0.01%	Aromadendrene	Sesquiterpene
54	30.41	0.03%	6,9-Guaiadiene	Sesquiterpene
55	30.70	0.10%	trans-Muurola-3,5-diene	Sesquiterpene
56	30.76	0.04%	beta-Caryophyllene	Sesquiterpene
57	30.93	0.76%	alpha-Humulene	Sesquiterpene
58	31.12	0.26%	allo-Aromadendrene	Sesquiterpene
59	31.21	0.04%	cis-Muurola-4(14),5-diene	Sesquiterpene
60	31.67	0.07%	trans-Cadina-1(6),4-diene	Sesquiterpene
61	31.80	0.14%	gamma-Muurolene	Sesquiterpene
62	32.00	3.15%	Germacrene D	Sesquiterpene
63	32.29	0.12%	beta-Selinene	Sesquiterpene
64	32.60	0.34%	Bicyclogermacrene	Sesquiterpene
65	32.77	0.17%	alpha-Muurolene	Sesquiterpene
66	32.94	0.04%	epi-Cubebol	Sesquiterpenol
67	33.19	0.08%	beta-Bisabolene	Sesquiterpene
68	33.31	0.12%	gamma-Cadinene	Sesquiterpene
69	33.39	0.08%	Cubebol	Sesquiterpenol
70	33.56	0.83%	delta-Cadinene	Sesquiterpene
71	34.07	0.08%	trans-Cadina-1,4-diene	Sesquiterpene

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Ravensara (Ravensara aromatic)
NF-RAVE-21-A

72	34.24	0.02%	alpha-Cadinene	Sesquiterpene
73	34.71	2.02%	Elemol	Sesquiterpenol
74	35.29	0.02%	(E)-Nerolidol	Sesquiterpenol
75	35.74	0.05%	Germacrene D-4-ol	Sesquiterpenol
76	35.90	0.11%	Caryophyllene oxide	Sesquiterpene Ether
77	36.56	0.08%	Guaiol	Sesquiterpenol
78	36.78	0.01%	Viridiflorol	Sesquiterpenol
79	37.08	0.01%	Rosifoliol	Sesquiterpenol
80	37.24	0.01%	1,10-di-epi-Cubenol	Sesquiterpenol
81	37.43	0.02%	Junenol	Sesquiterpenol
82	37.72	0.08%	1-epi-Cubenol	Sesquiterpenol
83	37.85	0.11%	gamma-Eudesmol	Sesquiterpenol
84	38.25	0.10%	T-Cadinol	Sesquiterpenol
85	38.31	0.08%	T-Muurolol	Sesquiterpenol
86	38.42	0.04%	alpha-Muurolol	Sesquiterpenol
87	38.65	0.09%	beta-Eudesmol	Sesquiterpenol
88	38.72	0.26%	alpha-Cadinol	Sesquiterpenol

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Essential Validation Services





Sample:

Client: | Nature's Fusions
Sample: | Ravensara (Ravensara aromatic)
Batch # | 11122 - B25
CAS Number | 91770-56-8
Type: | Essential Oil

Conclusion:

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



X *Adam Christen*

Validated By:

Essential Validation Services

747 SW 2nd Ave, Gainesville, FL 32601

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

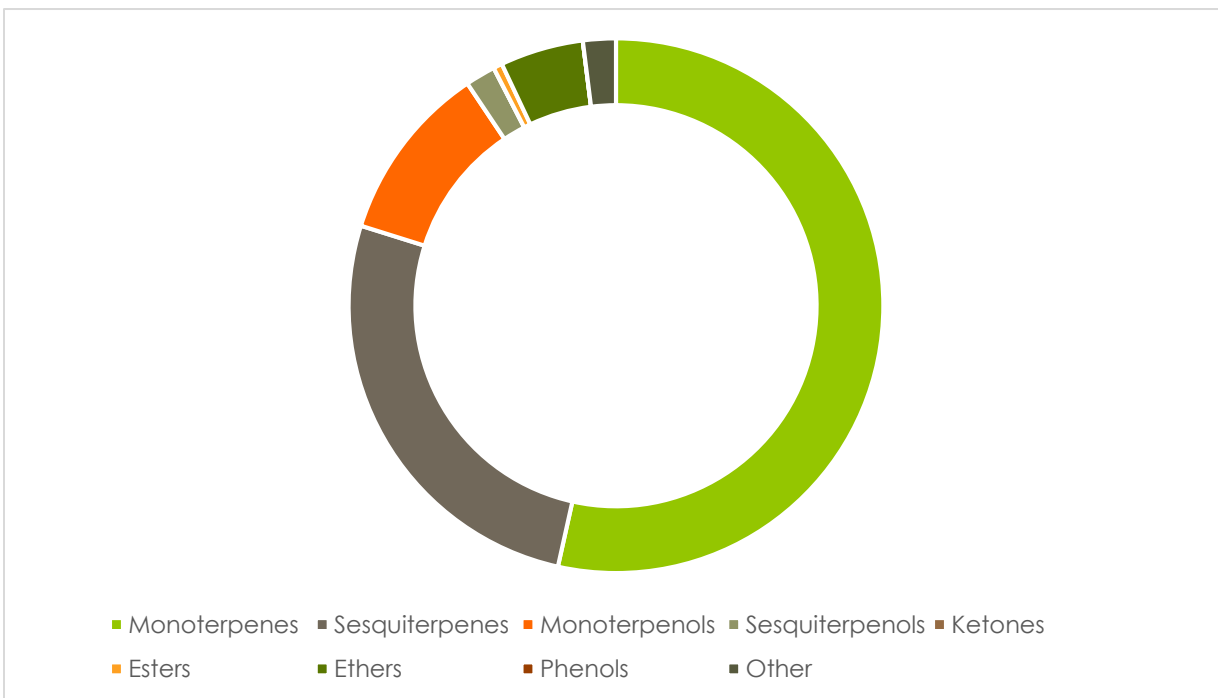
Summary of Analyses

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



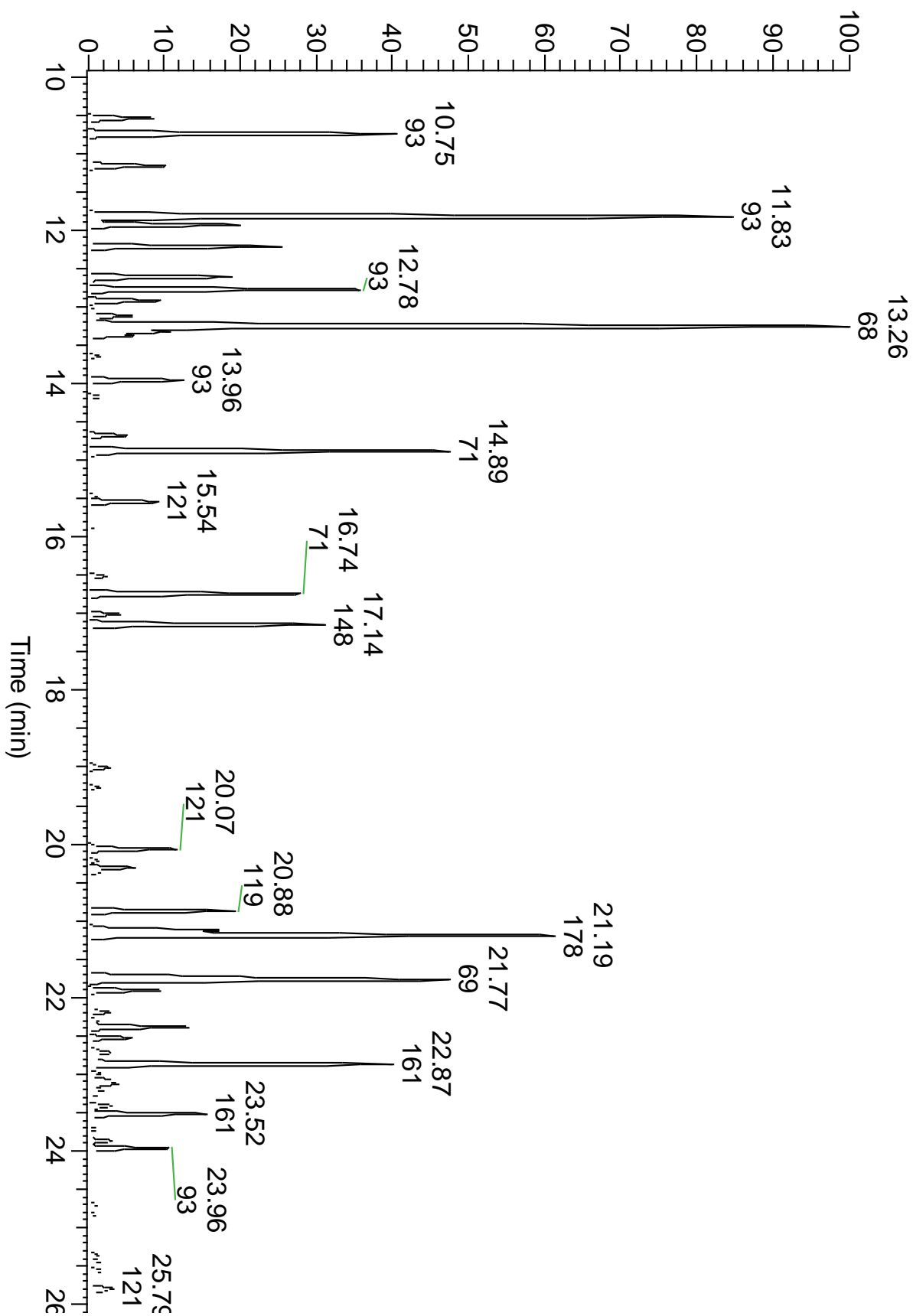
Main Compounds	Percentages
Limonene	14.57%
Sabinene	11.38%
Methyleugenol	7.75%
beta-Caryophyllene	6.88%
Linalool	5.48%
alpha-Pinene	4.80%
delta-3-Carene	4.04%
Methyl chavicol	3.52%
Terpinen-4-ol	3.14%
Myrcene	2.67%
beta-Pinene	2.22%
alpha-Phellandrene	2.15%
alpha-Copaene	1.94%

Monoterpenes	Sesquiterpenes	Monoterpenols	Sesquiterpenols	Ketones
48.52%	23.90%	9.78%	1.65%	0.00%
Esters	Ethers	Aldehydes	Phenols	Other
0.49%	4.57%	0.00%	9.02%	1.80%





RT: 9.91 - 26.29





Total Percentage	99.73%				
Peak Number	RT	Area %	Compound Name	RI	Chemical Family
1	10.55	0.95%	alpha-Thujene	927.80	Monoterpenes
2	10.75	4.80%	alpha-Pinene	936.10	Monoterpenes
3	11.17	1.23%	Camphene	953.30	Monoterpenes
4	11.83	11.38%	Sabinene	973.00	Monoterpenes
5	11.94	2.22%	beta-Pinene	977.70	Monoterpenes
6	12.22	2.67%	Myrcene	989.20	Monoterpenes
7	12.61	2.15%	alpha-Phellandrene	1004.10	Monoterpenes
8	12.78	4.04%	delta-3-Carene	1011.30	Monoterpenes
9	12.92	1.01%	alpha-Terpinene	1017.10	Monoterpenes
10	13.05	0.13%	meta-Cymene	1022.00	Monoterpenes
11	13.12	0.73%	para-Cymene	1024.30	Monoterpenes
12	13.26	14.57%	Limonene	1029.50	Monoterpenes
13	13.26	Co-Eluting	beta-Phellandrene	1030.00	Monoterpenes
14	13.32	0.97%	1,8-Cineole	1031.80	Ethers
15	13.38	0.57%	(Z)-beta-Ocimene	1037.80	Monoterpenes
16	13.65	0.15%	(E)-beta-Ocimene	1047.70	Monoterpenes
17	13.96	1.34%	gamma-Terpinene	1063.71	Monoterpenes
18	14.17	0.19%	cis-Sabinene hydrate	1066.50	Monoterpenols
19	14.68	0.58%	Terpinolene	1089.43	Monoterpenes
20	14.89	5.48%	Linalool	1099.00	Monoterpenols
21	15.46	0.12%	cis-para-Menth-2-en-1-ol	1123.10	Monoterpenols
22	15.54	0.95%	Alloocimene	1129.90	Other
23	15.86	0.10%	trans-para-Menth-2-en-1-ol	1141.75	Monoterpenols
24	16.51	0.29%	Borneol	1168.71	Monoterpenols
25	16.74	3.14%	Terpinen-4-ol	1180.57	Monoterpenols
26	17.00	0.46%	alpha-Terpineol	1191.71	Monoterpenols
27	17.14	3.52%	Methyl chavicol	1202.00	Ethers
28	19.01	0.36%	Bornyl acetate	1288.29	Esters
29	19.26	0.16%	Edulan II, dihydro-	1300.10	Edulan
30	20.07	1.25%	delta-Elemene	1335.83	Sesquiterpenes
31	20.22	0.13%	alpha-Terpinyl acetate	1353.00	Esters
32	20.31	0.64%	alpha-Cubebene	1355.71	Sesquiterpenes
33	20.37	0.15%	Eugenol	1365.89	Phenols
34	20.79	0.09%	beta-Elemene	1388.30	Sesquiterpenes
35	20.88	1.94%	alpha-Copaene	1379.00	Sesquiterpenes
36	21.12	1.73%	beta-Elemene	1388.30	Sesquiterpenes
37	21.19	7.75%	Methyleugenol	1407.29	Phenols
38	21.77	6.88%	beta-Caryophyllene	1427.14	Sesquiterpenes
39	21.91	1.00%	beta-Copaene	1445.00	Sesquiterpenes
40	22.13	0.08%	Unknown Sesquiterpene	#N/A	#N/A
41	22.20	0.33%	alpha-Humulene	1461.43	Sesquiterpenes
42	22.30	0.13%	allo-Aromadendrene	1471.00	Sesquiterpenes



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43	22.39	1.52%	gamma-Gurjunene	1473.17	Sesquiterpenes
44	22.53	0.61%	Unknown Sesquiterpene	#N/A	#N/A
45	22.72	0.45%	gamma-Muurolene	1478.86	Sesquiterpenes
46	22.87	4.58%	Germacrene D	1484.71	Sesquiterpenes
47	22.99	0.18%	beta-Selinene	1487.57	Sesquiterpenes
48	23.12	0.80%	alpha-Muurolene	1501.14	Sesquiterpenes
49	23.20	0.22%	Valencene	1504.00	Sesquiterpenes
50	23.26	0.10%	Cubebol	1515.10	Sesquiterpenols
51	23.41	0.37%	gamma-Cadinene	1515.29	Sesquiterpenes
52	23.52	1.69%	delta-Cadinene	1524.14	Sesquiterpenes
53	23.72	0.10%	trans-Cadina-1,4-diene	1532.71	Sesquiterpenes
54	23.87	0.28%	Elemol	1548.57	Sesquiterpenols
55	23.96	1.12%	Elemicin	1555.86	Phenols
56	24.70	0.08%	Caryophyllene oxide	1594.86	Ethers
57	24.83	0.07%	Guaiol	1603.86	Sesquiterpenols
58	25.36	0.15%	T-Muurolol	1643.29	Sesquiterpenols
59	25.44	0.17%	beta-Eudesmol	1647.86	Sesquiterpenols
60	25.56	0.34%	alpha-Muurolol	1649.33	Sesquiterpenols
61	25.79	0.54%	alpha-Cadinol	1655.00	Sesquiterpenols