

Client



Source

Lavender (*Lavandula angustifolia*)

NF-LAVF-21-A

Sample

Lavender (*Lavandula angustifolia*)

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

Type:..... Essential Oil

CAS Number:.... 8000-28-0

Nature's Fusions

Client



Website

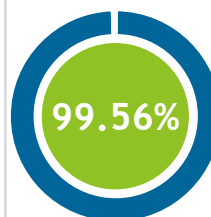
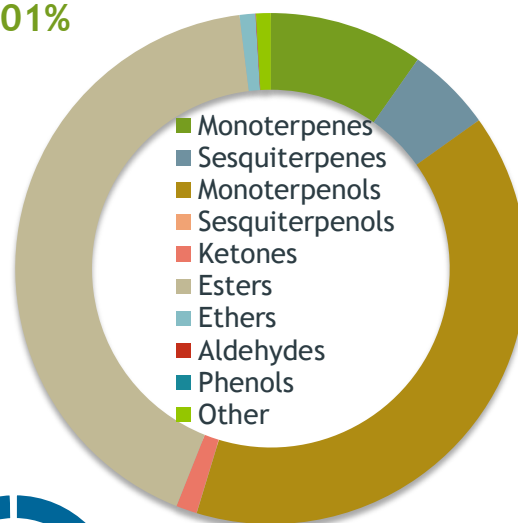


Primary

35.51%Linalyl acetate**31.23**Linalool**5.14%**Terpinen-4-ol

Esters

42.01%



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 Lavender (*Lavandula angustifolia*)

Internal Number: | EVS-4223



Essential Validation
Services

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

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

Monoterpenes	9.75%	9.75%
Sesquiterpenes	5.39%	5.39%
Monoterpenols	39.54%	39.54%
Sesquiterpenols	0.02%	0.02%
Ketones	1.31%	1.31%
Esters	42.01%	42.01%
Ethers	1.00%	1.00%
Aldehydes	0.03%	0.03%
Phenols	0.00%	0.00%
Other	0.93%	0.93%

Client

Nature's FUSIONS
ESSENTIAL OILS

Source

Lavender (*Lavandula angustifolia*)

NF-LAVF-21-A

Total Percentage		99.56%		
Number	RT	Area %	Compound Name	Chemical Family
1	4.61	0.02%	Butyl acetate	Aliphatic Ester
2	4.90	0.07%	Methyl hexyl ether	Aliphatic Ether
3	5.73	0.03%	cis-Hex-3-en-1-ol	Aliphatic Alcohol
4	6.15	0.06%	1-Hexanol	Aliphatic Alcohol
5	7.86	0.01%	Tricyclene	Monoterpene
6	8.03	0.06%	alpha-Thujene	Monoterpene
7	8.28	0.13%	alpha-Pinene	Monoterpene
8	8.89	0.08%	Camphene	Monoterpene
9	9.71	0.02%	6.93 Isopropyl tiglate	0.00
10	9.84	0.03%	Sabinene	Monoterpene
11	10.01	0.04%	beta-Pinene	Monoterpene
12	10.23	0.24%	1-Octen-3-ol	Aliphatic Alcohol
13	10.41	0.84%	Octan-3-one	Aliphatic Ketone
14	10.59	0.67%	Myrcene	Monoterpene
15	10.89	0.08%	Butyl butyrate	Aliphatic Ester
16	10.94	0.12%	3-Octanol	Aliphatic Alcohol
17	11.24	0.03%	alpha-Phellandrene	Monoterpene
18	11.35	0.05%	delta-3-Carene	Monoterpene
19	11.60	0.32%	Hexyl acetate	Aliphatic Ester
20	11.71	0.03%	alpha-Terpinene	Monoterpene
21	11.84	0.02%	meta-Cymene	Monoterpene
22	12.05	0.08%	para-Cymene	Monoterpene
23	12.26	0.54%	Limonene	Monoterpene
24	12.35	0.83%	1,8-Cineole	Monoterpene Ether
25	12.64	3.28%	(Z)-beta-Ocimene	Monoterpene
26	13.10	3.82%	(E)-beta-Ocimene	Monoterpene
27	13.57	0.14%	gamma-Terpinene	Monoterpene
28	14.13	0.17%	cis-Linalool oxide (5) (furanoid)	Monoterpenol
29	14.26	0.01%	1-Octanol	Aliphatic Alcohol
30	14.80	0.13%	Terpinolene	Monoterpene
31	14.87	0.09%	trans-Linalool oxide (5) (furanoid)	Monoterpenol
32	15.66	31.23%	Linalool	Monoterpenol
33	15.82	0.02%	Hexyl propanoate	Monoterpene Ester
34	15.95	0.76%	1-Octenyl-3 acetate	Monoterpene Ester
35	16.50	0.06%	Octan-3-yl acetate	Aliphatic Ester

Lavender (*Lavandula angustifolia*)

NF-LAVF-21-A

Number	RT	Area %	Compound Name	Chemical Family
36	16.578	0.02%	cis-para-Menth-2-en-1-ol	Aliphatic Ester
37	16.83	0.61%	Alloocimene	Monoterpene
38	17.52	0.36%	Camphor	Monoterpene Ketone
39	17.76	0.07%	Hexyl isobutyrate	Monoterpene Ester
40	17.90	0.01%	Nerol oxide	Monoterpene Ether
41	18.48	0.68%	Lavandulol	Monoterpenol
42	18.73	0.76%	Borneol	Monoterpenol
43	19.17	5.14%	Terpinen-4-ol	Monoterpenol
44	19.38	0.11%	Cryptone	Monoterpene Ketone
45	19.48	0.05%	para-Cymen-8-ol	Monoterpenol
46	19.64	0.02%	(Z)-3-Hexenyl butyrate	Aliphatic Ester
47	19.83	1.24%	alpha-Terpineol	Monoterpenol
48	20.67	0.02%	Octyl acetate	Aliphatic Ester
49	20.96	0.01%	trans-Carveol	Monoterpenol
50	21.25	0.15%	Nerol	Monoterpenol
51	21.52	0.02%	Fenchyl acetate	Monoterpene Ester
52	21.80	0.05%	Hexyl 2-methyl butanoate	Monoterpene Ester
53	21.92	0.03%	Cuminal	Monoterpene Aldehyde
54	22.09	0.14%	Hexyl isovalerate	Monoterpene Ester
55	22.54	35.51%	Linalyl acetate	Monoterpene Ester
56	23.86	0.08%	Bornyl acetate	Monoterpene Ester
57	23.97	3.28%	Lavandulyl acetate	Monoterpene Ester
58	25.94	0.05%	Hexyl tiglate	Monoterpene Ester
59	27.20	0.49%	Neryl acetate	Monoterpene Ester
60	27.80	0.01%	alpha-Copaene	Sesquiterpene
61	27.94	0.02%	Daucene	Sesquiterpene
62	28.04	0.89%	Geranyl acetate	Monoterpene Ester
63	28.39	0.11%	7-epi-Sesquithujene	Sesquiterpene
64	29.43	0.03%	cis-alpha-Bergamotene	Sesquiterpene
65	29.61	2.89%	beta-Caryophyllene	Sesquiterpene
66	30.11	0.03%	Coumarin	Coumarin
67	30.26	0.10%	trans-alpha-Bergamotene	Sesquiterpene
68	30.57	0.02%	(Z)-beta-Farnesene	Sesquiterpene
69	30.90	0.01%	beta-Copaene	Sesquiterpene
70	31.15	1.71%	(E)-beta-Farnesene	Sesquiterpene
71	31.39	0.05%	Lavandulyl isobutyrate	Monoterpene Ester



Lavender (Lavandula angustifolia)

NF-LAVF-21-A

[illegible]



Essential Validation Services



Sample:

Client: | Nature's Fusions
Sample: | Lavender (Lavandula angustifolia)
Batch # | 952103 #E1075-G
CAS Number | 8000-28-0
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

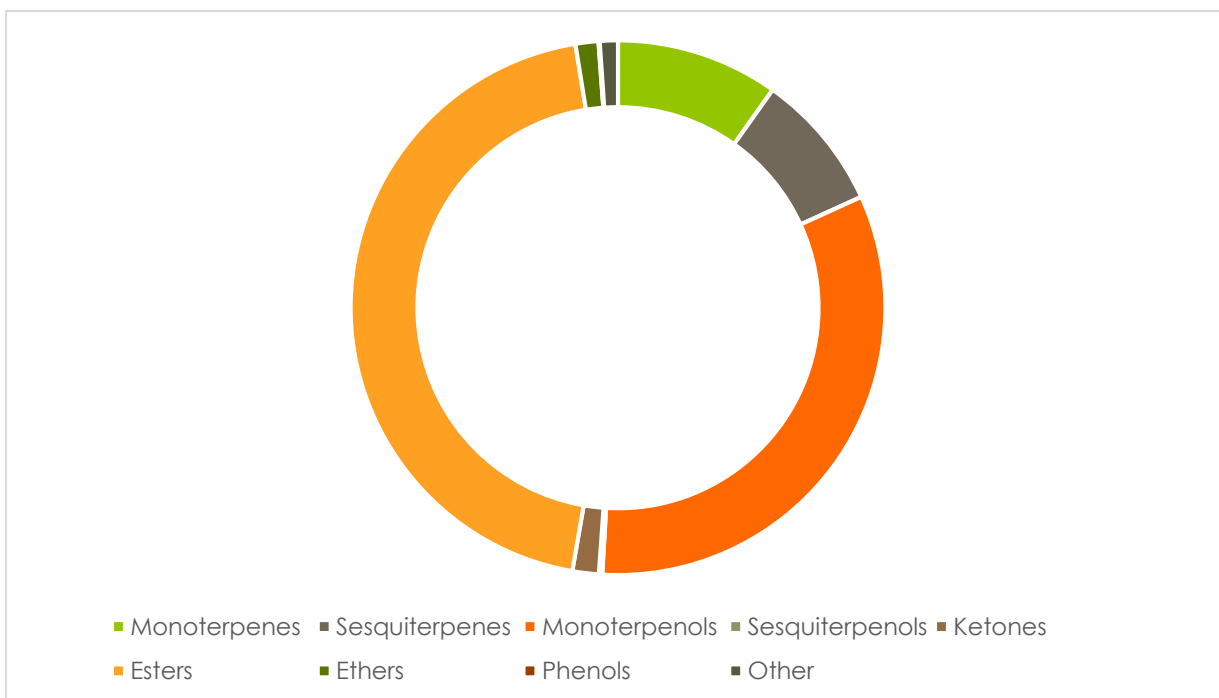
Phone: 317-361-5044 E-mail: Adam@essentialvalidationservices.com

Summary of Analyses

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

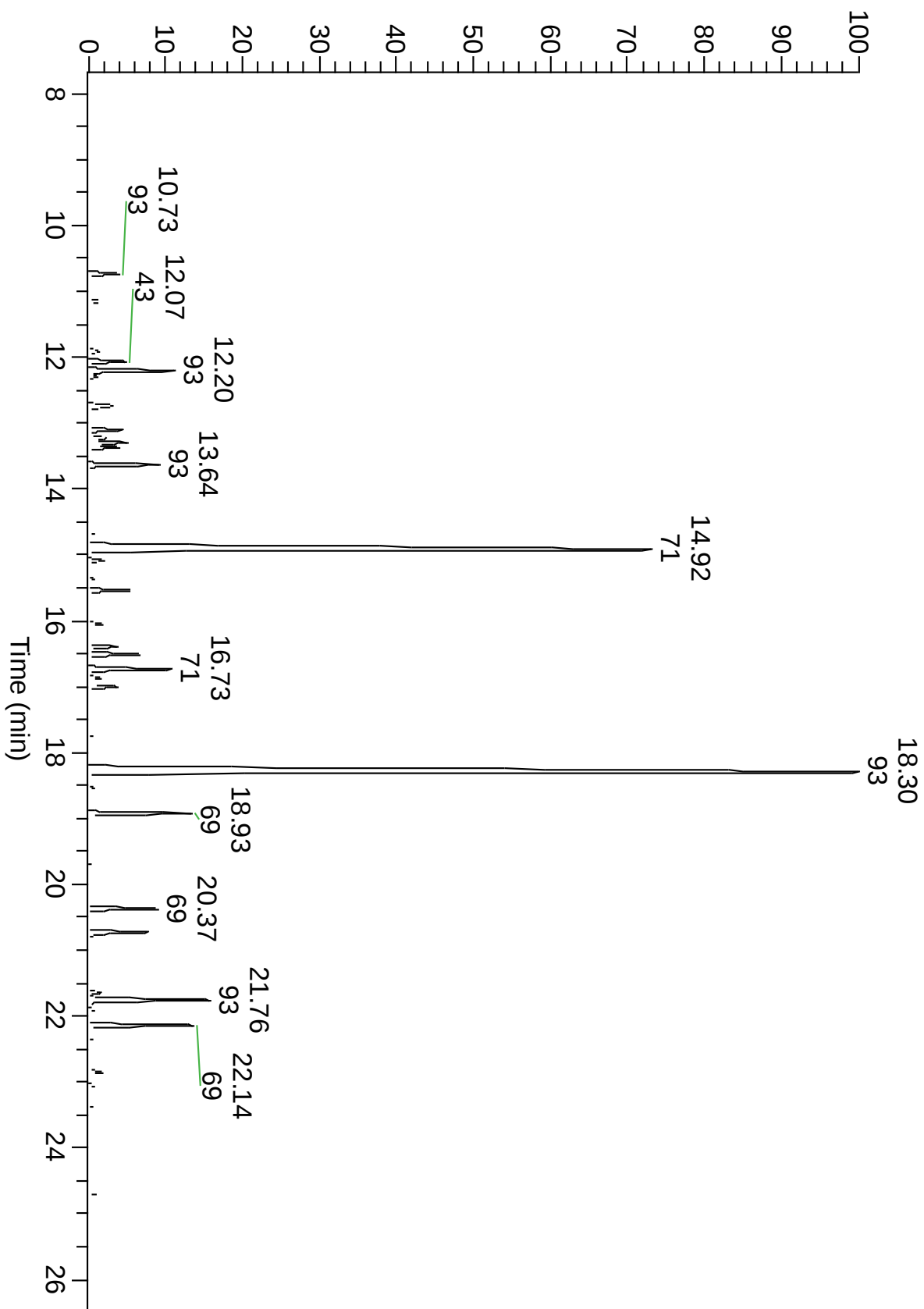
Main Compounds	Percentages
Linalyl acetate	36.68%
Linalool	26.17%
Lavandulyl acetate	2.67%
Myrcene	2.44%
Terpinen-4-ol	2.38%
(E)-beta-Ocimene	1.91%
Neryl acetate	1.86%
Geranyl acetate	1.63%
Borneol	1.56%
1,8-Cineole	1.12%
Alloocimene	1.08%
Octan-3-one	1.04%
delta-3-Carene	1.02%

Monoterpenes	Sesquiterpenes	Monoterpenols	Sesquiterpenols	Ketones
9.70%	8.26%	32.33%	0.20%	1.57%
Esters	Ethers	Aldehydes	Phenols	Other
44.14%	1.37%	0.07%	0.00%	1.08%





RT: 7.66 - 26.69



Total Percentage	98.72%				
Peak Number	RT	Area %	Compound Name	RI	Chemical Family
1	10.42	0.03%	Tricyclene	923.20	Monoterpenes
2	10.54	0.04%	alpha-Thujene	927.80	Monoterpenes
3	10.73	0.92%	alpha-Pinene	936.10	Monoterpenes
4	11.15	0.37%	Camphene	953.30	Monoterpenes
5	11.80	0.03%	Sabinene	973.00	Monoterpenes
6	11.91	0.39%	beta-Pinene	977.70	Monoterpenes
7	12.07	1.04%	Octan-3-one	984.50	Ketones
8	12.20	2.44%	Myrcene	989.20	Monoterpenes
9	12.73	1.02%	delta-3-Carene	1011.30	Monoterpenes
10	12.73	Co-Eluting	Hexyl acetate	1015.00	Esters
11	12.91	0.05%	alpha-Terpinene	1017.10	Monoterpenes
12	13.10	0.96%	para-Cymene	1024.30	Monoterpenes
13	13.22	0.60%	Limonene	1029.50	Monoterpenes
14	13.22	Co-Eluting	beta-Phellandrene	1030.00	Monoterpenes
15	13.30	1.12%	1,8-Cineole	1031.80	Ethers
16	13.37	0.86%	(Z)-beta-Ocimene	1037.80	Monoterpenes
17	13.64	1.91%	(E)-beta-Ocimene	1047.70	Monoterpenes
18	13.95	0.08%	gamma-Terpinene	1063.71	Monoterpenes
19	14.28	0.09%	cis-Linalool oxide (5) (furanoid)	1075.10	Monoterpenols
20	14.66	0.22%	trans-Linalool oxide (5) (furanoid)	1092.20	Monoterpenols
21	14.92	26.17%	Linalool	1099.00	Monoterpenols
22	15.08	0.40%	Octan-3-yl acetate	1127.00	Esters
23	15.36	0.12%	Octen-3-yl acetate	1107.00	Esters
24	15.54	1.08%	Alloocimene	1129.90	Other
25	15.92	0.06%	Camphene hydrate	1148.70	Esters
26	16.05	0.43%	Camphor	1153.86	Ketones
27	16.39	0.80%	Lavandulol	1161.50	Monoterpenols
28	16.51	1.56%	Borneol	1168.71	Monoterpenols
29	16.73	2.38%	Terpinen-4-ol	1180.57	Monoterpenols
30	16.87	0.36%	Hexyl butyrate	1185.50	Esters
31	16.94	0.10%	Cryptone	1185.33	Ketones
32	17.00	0.85%	alpha-Terpineol	1191.71	Monoterpenols
33	17.27	0.05%	Octyl acetate	1215.00	Esters
34	17.72	0.18%	Nerol	1230.67	Monoterpenols
35	17.84	0.08%	cis-Carveol	1232.25	Monoterpenols
36	17.92	0.07%	Hexyl 3-methylbutanoate	1242.00	Esters
37	18.07	0.07%	Cuminal	1243.00	Aldehydes
38	18.30	36.68%	Linalyl acetate	1263.80	Esters
39	18.53	0.15%	cis-Verbenyl acetate	1282.00	Esters
40	18.93	2.67%	Lavandulyl acetate	1285.00	Esters
41	19.01	0.09%	Bornyl acetate	1288.29	Esters
42	20.37	1.86%	Neryl acetate	1362.90	Esters



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