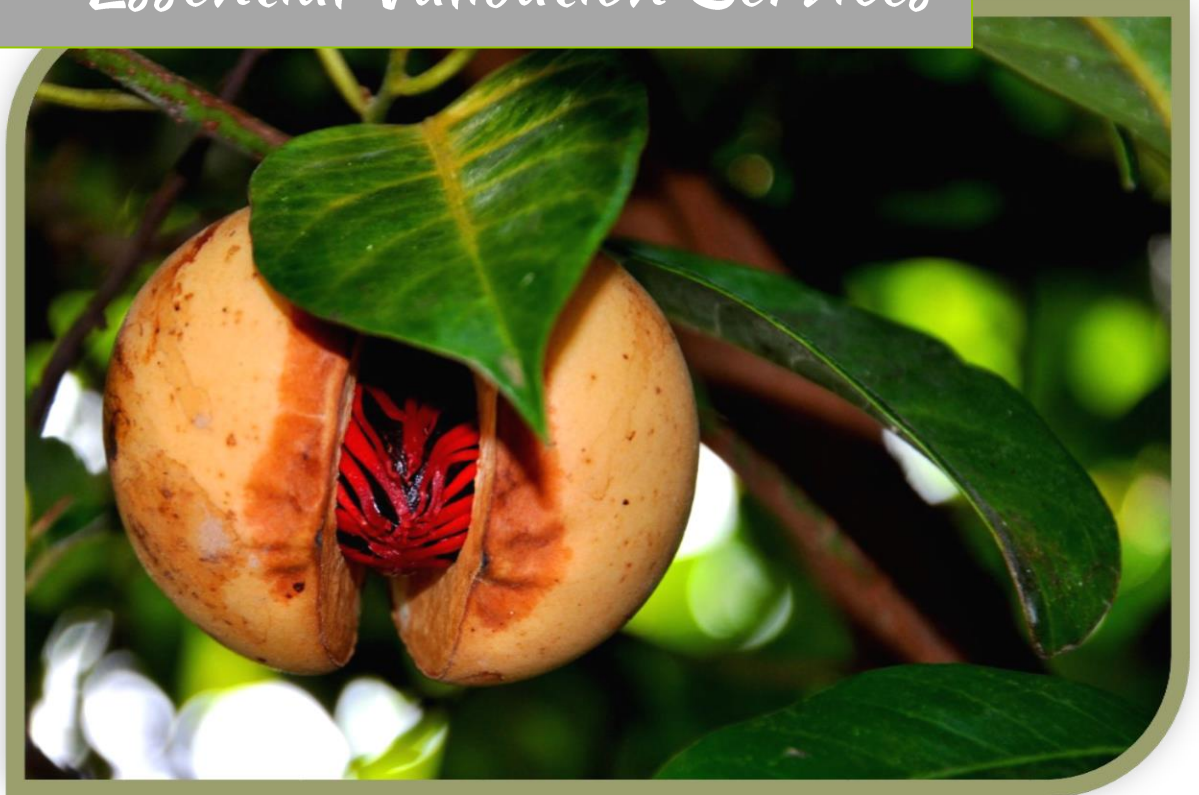




Essential Validation Services





Sample:

Client: | Nature's Fusions
Sample: | Nutmeg (Myristica fragrans)
Batch # | 11101-A19
CAS Number | 8008-45-5
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

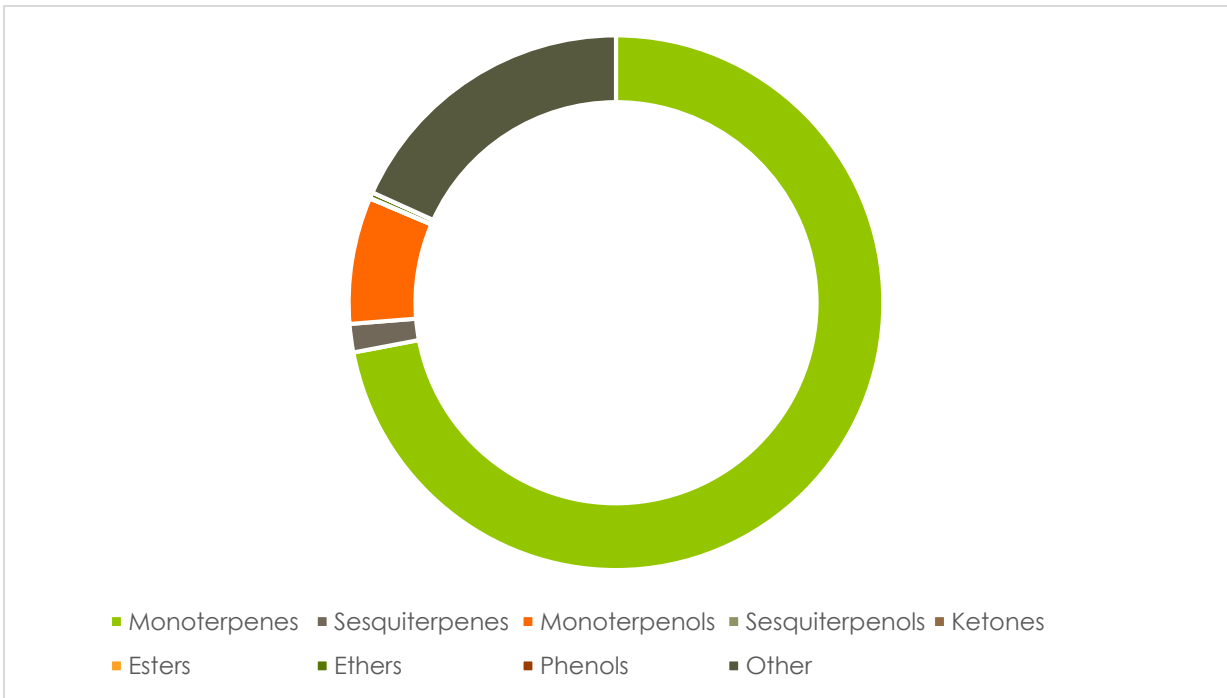
Summary of Analyses

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

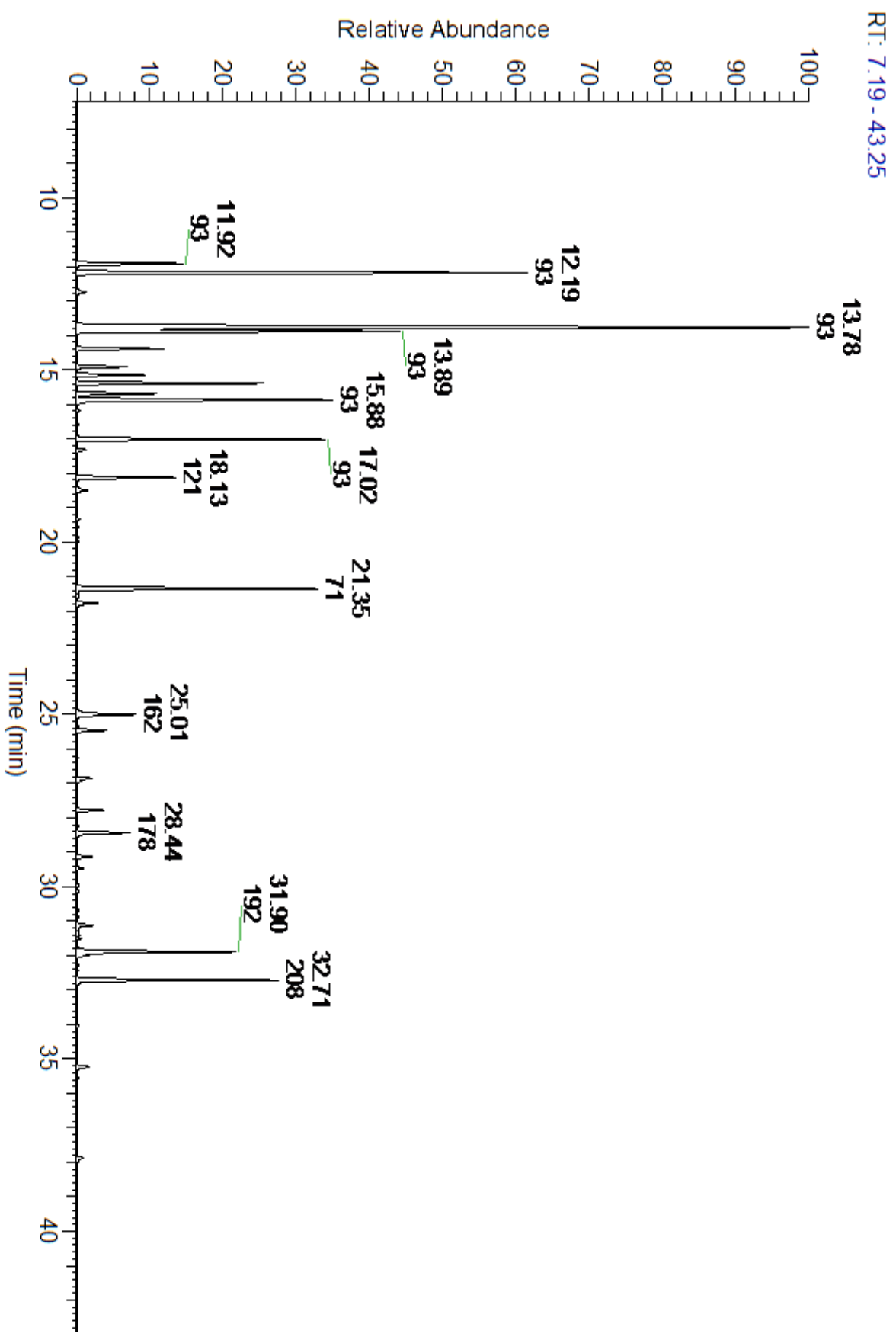


Main Compounds	Percentages
Sabinene	24.28%
alpha-Pinene	11.76%
beta-Pinene	8.25%
Limonene	7.22%
Terpinen-4-ol	6.82%
gamma-Terpinene	6.39%
Elemicin	5.23%
alpha-Terpinene	4.66%
Myristicin	4.43%
alpha-Thujene	2.77%
Terpinolene	2.58%
para-Cymene	2.04%
Myrcene	2.01%

Monoterpenes	Sesquiterpenes	Monoterpenols	Sesquiterpenols	Ketones
75.21%	1.79%	7.99%	0.00%	0.00%
Esters	Ethers	Aldehydes	Phenols	Other
0.03%	0.37%	0.00%	13.57%	1.04%



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Total Percentage	99.12%				
Peak Number	RT	Area %	Compound Name	RI	Chemical Family
1	11.92	2.77%	alpha-Thujene	927.80	Monoterpene
2	12.19	11.76%	alpha-Pinene	936.10	Monoterpene
3	12.75	0.25%	Camphene	950.30	Monoterpene
4	13.78	24.28%	Sabinene	973.00	Monoterpene
5	13.89	8.25%	beta-Pinene	974.00	Monoterpene
6	14.39	2.01%	Myrcene	989.20	Monoterpene
7	14.91	1.23%	alpha-Phellandrene	1002.00	Monoterpene
8	15.14	1.68%	delta-3-Carene	1008.00	Monoterpene
9	15.39	4.66%	alpha-Terpinene	1014.00	Monoterpene
10	15.69	2.04%	para-Cymene	1024.30	Monoterpene
11	15.88	7.22%	Limonene	1029.50	Monoterpene
12	15.88	Co-Eluting	beta-Phellandrene	1030.00	Monoterpene
13	15.88	Co-Eluting	1,8-Cineole	1031.80	Monoterpene Ether
14	16.19	0.05%	(Z)-beta-Ocimene	1037.80	Monoterpene
15	16.58	0.02%	(E)-beta-Ocimene	1047.70	Monoterpene
16	17.02	6.39%	gamma-Terpinene	1054.00	Monoterpene
17	17.33	0.22%	cis-Sabinene hydrate	1072.00	Monoterpenol
18	18.13	2.58%	Terpinolene	1092.10	Monoterpene
19	18.50	0.29%	Linalool	1099.00	Monoterpenol
20	19.35	0.06%	cis-para-Menth-2-en-1-ol	1118.25	Monoterpenol
21	19.56	0.02%	Alloocimene	1129.90	Monoterpene
22	19.99	0.03%	trans-para-Menth-2-en-1-ol	1141.75	Monoterpenol
23	21.35	6.82%	Terpinen-4-ol	1180.57	Monoterpenol
24	21.50	0.01%	para-Cymen-8-ol	1185.25	Monoterpenol
25	21.77	0.56%	alpha-Terpineol	1191.71	Monoterpenol
26	25.01	1.72%	Safrole	1290.14	Phenylpropanoid
27	25.34	0.03%	Terpinen-4-yl acetate	1299.00	Monoterpene Ester
28	25.47	0.70%	Anisylacetone		
29	26.85	0.37%	alpha-Terpinyl acetate	1353.00	Monoterpene Ether
30	26.94	0.08%	alpha-Cubebene	1355.71	Sesquiterpene
31	27.79	0.66%	alpha-Copaene	1379.00	Sesquiterpene
32	28.44	1.38%	Methyl Eugenol	1407.27	Phenylpropanoid
33	29.14	0.37%	beta-Caryophyllene	1427.14	Sesquiterpene
34	29.47	0.13%	trans-alpha-Bergamotene	1435.00	Sesquiterpene
35	29.96	0.04%	(E)-beta-Farnesene	1456.29	Sesquiterpene
36	30.11	0.05%	alpha-Humulene	1461.43	Sesquiterpene
37	30.70	0.02%	gamma-Murolene	1478.86	Sesquiterpene
38	31.12	0.46%	(E)-Methyl isoeugenol	1490.00	Phenylpropanoid
39	31.39	0.06%	(E,E)-alpha-Farnesene	1508.14	Sesquiterpene
40	31.51	0.08%	beta-Bisabolene	1509.86	Sesquiterpene
41	31.90	4.43%	Myristicin	1522.86	Phenylpropanoid
42	31.99	0.29%	delta-Cadinene	1524.14	Sesquiterpene

