

Client



Source



Andean Mint (*Elettaria cardamomum*)
0420P8, 1304FG

Sample

Andean Mint (*Elettaria cardamomum*)

Batch #:..... 0420P8, 1304FG

Type:..... Essential Oil

CAS Number:... 8000-66-6

Natural Sourcing LLC

Client



Website



Primary

22.54%

Pulegone

17.87%

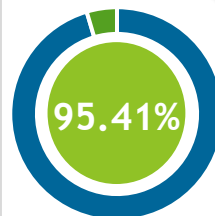
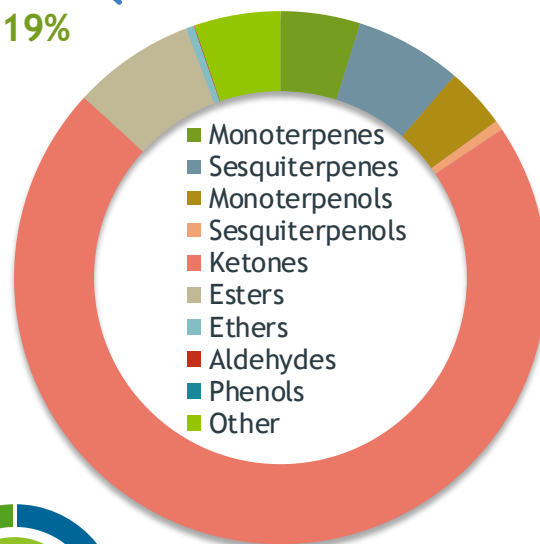
Menthone

10.42%

Piperitone

Ketones

71.19%



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 Andean Mint (*Elettaria cardamomum*)

Internal Number: | EVS-3690



Essential Validation Services

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

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

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Monoterpenes	4	4.84%
Sesquiterpenes	6	6.49%
Monoterpenols		3.69%
Sesquiterpenols		0.60%
Ketones	71.19%	71.19%
Esters	7	7.42%
Ethers		0.49%
Aldehydes		0.04%
Phenols		0.00%
Other	5	5.24%

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Total Percentage		95.41%		
Number	RT	Area %	Compound Name	Chemical Family
1	5.86	0.01%	(E)-2-Hexenal	Aliphatic Aldehyde
2	8.31	0.04%	alpha-Thujene	Monoterpene
3	8.57	0.23%	alpha-Pinene	Monoterpene
4	9.20	0.01%	Camphene	Monoterpene
5	9.28	0.04%	3-Methyl cyclohexanone	Aliphatic Ketone
6	10.16	0.14%	Sabinene	Monoterpene
7	10.33	0.33%	beta-Pinene	Monoterpene
8	10.72	0.26%	Octan-3-one	Aliphatic Ketone
9	10.91	0.39%	Myrcene	Monoterpene
10	11.24	0.65%	3-Octanol	Aliphatic Alcohol
11	11.46	0.01%	Pseudolimonene	Monoterpene
12	12.05	0.03%	alpha-Terpinene	Monoterpene
13	12.38	0.30%	para-Cymene	Monoterpene
14	12.60	2.48%	Limonene	Monoterpene
15	12.70	0.07%	1,8-Cineole	Monoterpene Ether
16	12.97	0.06%	(Z)-beta-Ocimene	Monoterpene
17	13.44	0.39%	(E)-beta-Ocimene	Monoterpene
18	13.92	0.35%	gamma-Terpinene	Monoterpene
19	14.45	0.05%	trans-Sabinene hydrate	Monoterpenol
20	15.16	0.02%	Terpinolene	Monoterpene
21	15.36	0.01%	para-Cymenene	Monoterpene
22	15.88	2.18%	Linalool	Monoterpenol
23	16.02	0.02%	Hotrienol	Monoterpenol
24	16.85	0.25%	Octan-3-yl acetate	Aliphatic Ester
25	18.43	17.87%	Menthone	Monoterpene Ketone
26	18.78	1.01%	IsoMenthone	Monoterpene Ketone
27	19.10	0.07%	Borneol	Monoterpenol
28	19.27	0.97%	Isopulegone	Monoterpene Ketone
29	19.52	0.07%	Terpinen-4-ol	Monoterpenol
30	20.23	0.26%	alpha-Terpineol	Monoterpenol
31	20.33	4.53%	cis-Dihydrocarvone	Monoterpene Ketone
32	20.59	0.64%	trans-Dihydrocarvone	Monoterpene Ketone
33	20.82	0.06%	Verbenone	Monoterpene Ketone
34	21.37	0.03%	trans-Carveol	Monoterpenol
35	21.68	0.08%	Nerol	Monoterpenol

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Number	RT	Area %	Compound Name	Chemical Family
36	21.829	0.17%	Citronellol	Monoterpenol
37	22.23	22.54%	Pulegone	Monoterpene Ketone
38	22.45	7.09%	Carvone	Monoterpene Ketone
39	22.90	10.42%	Piperitone	Monoterpene Ketone
40	23.52	0.76%	isopiperitenone	Monoterpene Ketone
41	24.26	0.03%	Bornyl acetate	Monoterpene Ester
42	24.53	0.03%	Perilla aldehyde	Monoterpene Aldehyde
43	24.67	0.76%	Thymol	Monoterpenol
44	25.94	0.03%	Terpinen-4-yl acetate	Monoterpene Ester
45	26.37	0.40%	delta-Elemene	Sesquiterpene
46	26.57	5.00%	Piperitenone	Sesquiterpene Ketone
47	26.98	0.20%	Thymyl acetate	Monoterpene Ester
48	27.57	5.33%	Carvacryl acetate	Monoterpene Ester
49	28.24	0.08%	alpha-Copaene	Sesquiterpene
50	28.44	1.58%	Geranyl acetate	Monoterpene Ester
51	28.55	0.11%	beta-Bourbonene	Sesquiterpene
52	28.77	0.02%	beta-Cubebene	Sesquiterpene
53	28.85	0.07%	beta-Elemene	Sesquiterpene
54	29.44	0.02%	cis-Caryophyllene	Sesquiterpene
55	30.05	3.59%	beta-Caryophyllene	Sesquiterpene
56	30.48	0.04%	beta-Copaene	Sesquiterpene
57	30.81	0.04%	Aromadendrene	Sesquiterpene
58	31.31	0.05%	Geranylacetone	Monoterpene
59	31.51	0.55%	alpha-Humulene	Sesquiterpene
60	32.57	0.57%	gamma-Murolene	Sesquiterpene
61	32.86	0.01%	beta-Selinene	Sesquiterpene
62	33.00	0.04%	gamma-Gurjunene	Sesquiterpene
63	33.16	0.78%	Bicyclogermacrene	Sesquiterpene
64	33.65	0.05%	(E,E)-alpha-Farnesene	Sesquiterpene
65	33.75	0.04%	beta-Bisabolene	Sesquiterpene
66	34.12	0.08%	beta-Cadinene	Sesquiterpene
67	36.31	0.40%	Spathulenol	Sesquiterpenol
68	36.49	0.38%	Caryophyllene oxide	Sesquiterpene Ether
69	36.65	0.04%	Palustrol	Sesquiterpenol
70	37.55	0.04%	Humulene epoxide II	Sesquiterpene Ether
71	38.01	0.02%	Junenol	Sesquiterpenol

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72	38.47	0.14%	Isospathulenol	Sesquiterpenol

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