

Client

WHOLESALE BOTANICS .COM

Source



Citronella (Cymbopogon winterianus)
VA-CIT

Sample

Citronella (Cymbopogon winterianus)

Batch #:..... VA-CIT
Type:..... Essential Oil
CAS Number:... 8000-29-1

Wholesale Botanics

Client

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Website

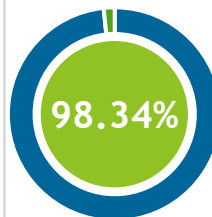
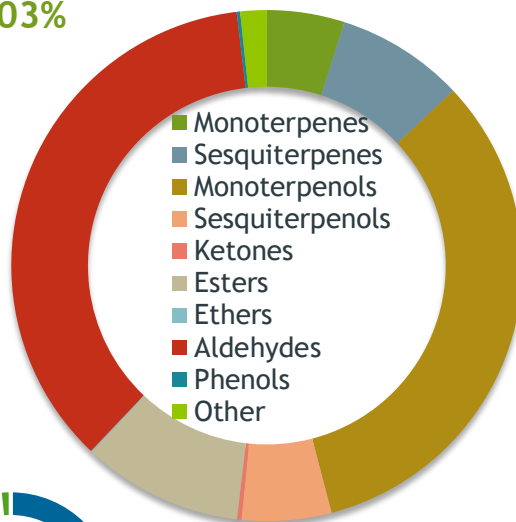


Primary

34.14% Citronellal
20.40% Geraniol
10.13% Citronellol

Aldehydes

36.03%



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 Citronella (Cymbopogon winterianus)

Internal Number: | EVS-5038



Essential Validation Services

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

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

Alan Christen

Monoterpenes	4.9	4.91%
Sesquiterpenes	8.10%	8.10%
Monoterpenols	32.91%	32.91%
Sesquiterpenols	5.67	5.67%
Ketones		0.28%
Esters	10.14%	10.14
Ethers		0.07%
Aldehydes	36.03%	36.03
Phenols		0.22%
Other		1.67%

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Total Percentage		98.34%		
Number	RT	Area %	Compound Name	Chemical Family
1	7.57	0.05%	Tricyclene	Monoterpene
2	7.99	0.17%	alpha-Pinene	Monoterpene
3	8.59	0.18%	Camphene	Monoterpene
4	9.53	0.03%	Sabinene	Monoterpene
5	9.69	0.01%	beta-Pinene	Monoterpene
6	10.08	0.11%	6-Methyl-5-hepten-2-one	Aliphatic Ketone
7	10.27	0.10%	Myrcene	Monoterpene
8	10.48	0.01%	6-Methyl-5-hepten-2-ol	Aliphatic Alcohol
9	10.87	0.01%	Octanal	Aliphatic Aldehyde
10	10.90	0.02%	alpha-Phellandrene	Monoterpene
11	11.38	0.01%	alpha-Terpinene	Monoterpene
12	11.71	0.01%	para-Cymene	Monoterpene
13	11.92	4.06%	Limonene	Monoterpene
14	12.30	0.09%	(Z)-beta-Ocimene	Monoterpene
15	12.75	0.06%	(E)-beta-Ocimene	Monoterpene
16	13.22	0.02%	gamma-Terpinene	Monoterpene
17	13.79	0.01%	cis-Linalool oxide (5) (furanoid)	Monoterpenol
18	13.89	0.04%	4-Nonanone	Aliphatic Ketone
19	14.44	0.08%	Terpinolene	Monoterpene
20	15.18	0.90%	Linalool	Monoterpenol
21	15.39	0.01%	Nonanal	Aliphatic Aldehyde
22	15.60	0.02%	cis-Rose oxide	Monoterpene Ether
23	16.32	0.01%	trans-Rose oxide	Monoterpene Ether
24	16.46	0.02%	Alloocimene	Monoterpene
25	16.54	0.06%	beta-Thujone	Monoterpene Ketone
26	16.82	0.01%	alpha-Thujone	Monoterpene Ketone
27	17.29	0.98%	Isopulegol	Monoterpenol
28	17.71	34.14%	Citronellal	Monoterpene Aldehyde
29	18.07	0.06%	Isomenthone	Monoterpene Ketone
30	18.27	0.07%	neo-Isopulegol	Monoterpenol
31	18.38	0.05%	Borneol	Monoterpenol
32	18.78	0.04%	Terpinen-4-ol	Monoterpenol
33	18.86	0.02%	(E)-Isocitral	Monoterpene Aldehyde
34	19.34	0.01%	(Z)-4-Decenal	Monoterpene Aldehyde
35	19.47	0.12%	alpha-Terpineol	Monoterpenol

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Number	RT	Area %	Compound Name	Chemical Family
36	20.054	0.21%	Decanal	Monoterpenol
37	20.30	0.01%	Octyl acetate	Aliphatic Ester
38	20.88	0.21%	Nerol	Monoterpenol
39	21.11	10.13%	Citronellol	Monoterpenol
40	21.46	0.72%	Neral	Monoterpene Aldehyde
41	22.25	20.40%	Geraniol	Monoterpenol
42	22.82	0.88%	Geranial	Monoterpene Aldehyde
43	23.10	0.02%	Citronellyl formate	Monoterpene Ester
44	24.19	0.02%	Geranyl formate	Monoterpene Ester
45	25.70	0.02%	delta-Elemene	Sesquiterpene
46	26.21	0.02%	alpha-Cubebene	Sesquiterpene
47	26.46	4.11%	Citronellyl acetate	Monoterpene Ester
48	27.11	0.04%	alpha-Ylangene	Sesquiterpene
49	27.40	0.03%	alpha-Copaene	Sesquiterpene
50	27.71	5.35%	Geranyl acetate	Monoterpene Ester
51	27.83	0.01%	beta-Bourbonene	Sesquiterpene
52	28.04	1.79%	beta-Elemene	Sesquiterpene
53	28.57	0.09%	Methyl eugenol	Phenylpropanoid
54	28.98	0.02%	Dodecanal	Aliphatic Aldehyde
55	29.19	0.76%	beta-Caryophyllene	Sesquiterpene
56	29.64	0.10%	beta-Cubebene	Sesquiterpene
57	29.86	0.08%	trans-alpha-Bergamotene	Sesquiterpene
58	30.31	0.02%	trans-Muurolo-3,5-diene	Sesquiterpene
59	30.43	0.13%	(Z)-Isoeugenol	Phenylpropanoid
60	30.66	0.16%	alpha-Humulene	Sesquiterpene
61	31.18	0.01%	beta-Copaene	Sesquiterpene
62	31.40	0.05%	trans-Cadina-1(6),4-diene	Sesquiterpene
63	31.54	0.15%	gamma-Muurolole	Sesquiterpene
64	31.73	1.65%	Germacrene D	Sesquiterpene
65	32.03	0.03%	beta-Selinene	Sesquiterpene
66	32.14	0.03%	cis-Muurolo-4(14),5-diene	Sesquiterpene
67	32.34	0.08%	epi-Cubebol	Sesquiterpenol
68	32.51	0.54%	alpha-Muurolole	Sesquiterpene
69	33.05	1.10%	gamma-Cadinene	Sesquiterpene
70	33.30	1.47%	beta-Cadinene	Sesquiterpene
71	33.70	0.20%	Citronellyl butyrate	Monoterpene Ester

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72	33.82	0.04%	trans-Cadina-1,4-diene	Sesquiterpene
73	34.48	2.88%	Elemol	Sesquiterpenol
74	34.75	0.01%	Cubebol	Sesquiterpenol
75	34.88	0.43%	Geranyl butyrate	Monoterpene Ester
76	35.50	0.85%	Germacrene D-4-ol	Sesquiterpenol
77	35.64	0.04%	Caryophyllene oxide	Sesquiterpene Ether
78	37.18	0.03%	10-epi-gamma-Eudesmol	Sesquiterpenol
79	37.45	0.05%	1,10-di-epi-Cubenol	Sesquiterpenol
80	37.60	0.21%	gamma-Eudesmol	Sesquiterpenol
81	38.00	0.25%	T-Cadinol	Sesquiterpenol
82	38.06	0.27%	T-Muurolol	Sesquiterpenol
83	38.17	0.08%	alpha-Muurolol	Sesquiterpenol
84	38.48	0.94%	alpha-Cadinol	Sesquiterpenol
85	40.54	0.01%	(E,Z)-Farnesal	
86	40.82	0.01%	(Z,E)-Farnesol	Sesquiterpenol
87	41.52	0.01%	(E,E)-Farnesol	Sesquiterpenol
88	45.08	0.01%	Hexadecanal	Sesquiterpene Aldehyde

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