

Client



Source



Geranium (*Pelargonium x asperum*)
030210628

Sample

Geranium (*Pelargonium x asperum*)

Batch #:..... 030210628

Type:..... Essential Oil

CAS Number:... 8000-46-2

Natural Sourcing LLC

Client



Website



Primary

26.73%

Citronellol

11.02%

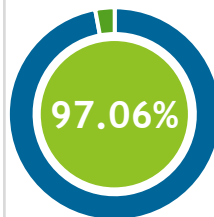
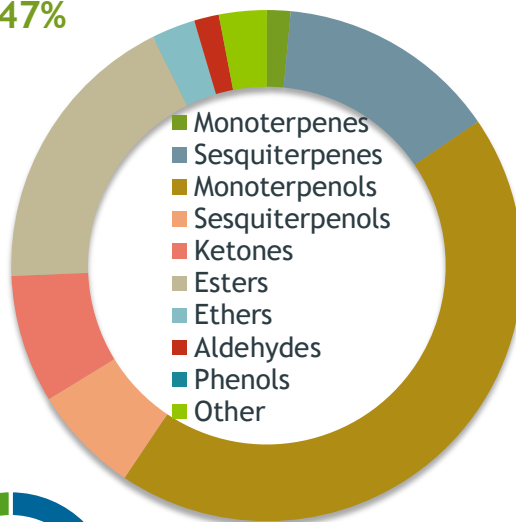
Geraniol

8.16%

Citronellyl formate

Monoterpenols

43.47%



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 Geranium (*Pelargonium x asperum*)

Internal Number: | EVS-4437



Essential Validation Services

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

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

Alan Chastain

Monoterpenes	1.48%
Sesquiterpenes	13.84%
Monoterpenols	43.47%
Sesquiterpenols	6.79%
Ketones	8.01%
Esters	18.11%
Ethers	2.74%
Aldehydes	1.55%
Phenols	0.00%
Other	2.99%

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NATURAL SOURCING
Cosmetic and Personal Care Ingredient Specialists
PROUDLY SERVING YOU FOR OVER 30 YEARS

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Geranium (Pelargonium x asperum)

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Total Percentage		97.06%		
Number	RT	Area %	Compound Name	Chemical Family
1	4.21	0.01%	Hexanal	Aliphatic Aldehyde
2	5.36	0.03%	3-Methylpentanol	Aliphatic Alcohol
3	8.15	0.55%	alpha-Pinene	Monoterpene
4	9.87	0.01%	beta-Pinene	Monoterpene
5	10.09	0.01%	1-Octen-3-ol	Aliphatic Alcohol
6	10.26	0.06%	6-Methyl-5-hepten-2-one	Aliphatic Ketone
7	10.45	0.17%	Myrcene	Monoterpene
8	10.58	0.02%	delta-3-Carene	Monoterpene
9	11.09	0.12%	alpha-Phellandrene	Monoterpene
10	11.56	0.01%	alpha-Terpinene	Monoterpene
11	11.89	0.09%	para-Cymene	Monoterpene
12	12.10	0.24%	Limonene	Monoterpene
13	12.48	0.08%	(Z)-beta-Ocimene	Monoterpene
14	12.72	0.01%	Phenylacetaldehyde	Aliphatic Aldehyde
15	12.94	0.12%	(E)-beta-Ocimene	Monoterpene
16	13.21	0.02%	Bergamal	Aliphatic Aldehyde
17	13.96	0.28%	cis-Linalool oxide (5) (furanoid)	Monoterpenol
18	14.10	0.01%	1-Octanol	Aliphatic Alcohol
19	14.63	0.02%	Terpinolene	Monoterpene
20	14.69	0.12%	trans-Linalool oxide (5) (furanoid)	Monoterpenol
21	15.37	4.16%	Linalool	Monoterpenol
22	15.46	0.12%	6-Methyl-3,5-heptadien-2-one	Monoterpene Ketone
23	15.58	0.02%	Nonanal	Aliphatic Aldehyde
24	15.79	1.56%	cis-Rose oxide	Monoterpene Ether
25	16.32	0.01%	Myrcenol	Monoterpenol
26	16.52	0.67%	trans-Rose oxide	Monoterpene Ether
27	17.48	0.15%	Isopulegol	Monoterpenol
28	17.76	0.22%	Citronellal	Monoterpene Aldehyde
29	17.82	0.36%	Menthone	Monoterpene Ketone
30	17.93	0.06%	neo-Isopulegol	Monoterpenol
31	18.24	7.34%	Isomenthone	Monoterpene Ketone
32	18.57	0.03%	para-Mentha-1,5-dien-8-ol	Monoterpenol
33	19.05	0.04%	(E)-Isocitral	Monoterpene Aldehyde
34	19.33	0.21%	Neoisomenthol	Monoterpenol
35	19.65	0.34%	alpha-Terpineol	Monoterpenol

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Number	RT	Area %	Compound Name	Chemical Family
36	20.738	0.11%	trans-Dihydrocarvone	Monoterpenol
37	21.07	0.32%	Nerol	Monoterpenol
38	21.35	26.73%	Citronellol	Monoterpenol
39	21.67	0.57%	Citral	Monoterpene Aldehyde
40	22.35	11.02%	Geraniol	Monoterpenol
41	22.87	0.04%	cis-Isogeraniol	Monoterpenol
42	23.01	0.65%	Geranial	Monoterpene Aldehyde
43	23.32	8.16%	Citronellyl formate	Monoterpene Ester
44	23.42	0.06%	Neryl formate	Monoterpene Ester
45	24.40	3.62%	Geranyl formate	Monoterpene Ester
46	25.77	0.26%	delta-Elemene	Sesquiterpene
47	26.43	0.25%	alpha-Cubebene	Sesquiterpene
48	26.54	0.04%	2-Phenylethyl propionate	Monoterpene Ester
49	26.65	0.36%	Citronellyl acetate	Monoterpene Ester
50	27.23	0.01%	(E)-2-Undecenal	Sesquiterpene Aldehyde
51	27.34	0.08%	alpha-Ylangene	Sesquiterpene
52	27.62	0.69%	alpha-Copaene	Sesquiterpene
53	27.93	1.96%	beta-Bourbonene	Sesquiterpene
54	28.16	0.12%	beta-Cubebene	Sesquiterpene
55	28.24	0.11%	beta-Elemene	Sesquiterpene
56	28.39	0.08%	Phenylethyl isobutyrate	Phenolic ester
57	28.81	0.01%	Isocaryophyllene	Sesquiterpene
58	28.93	0.08%	alpha-Gurjunene	Sesquiterpene
59	29.41	1.76%	beta-Caryophyllene	Sesquiterpene
60	29.85	0.27%	beta-Gurjunene	Sesquiterpene
61	30.37	0.41%	6,9-Guaiadiene	Sesquiterpene
62	30.45	0.58%	Citronellyl propionate	Monoterpene Ester
63	30.65	0.82%	Aromadendrene	Sesquiterpene
64	30.88	0.39%	alpha-Humulene	Sesquiterpene
65	31.06	0.31%	allo-Aromadendrene	Sesquiterpene
66	31.40	0.11%	Dauca-5,8-diene	Sesquiterpene
67	31.64	1.33%	Neryl propionate	Monoterpene Ester
68	31.94	2.09%	Germacrene D	Sesquiterpene
69	32.06	0.20%	gamma-Selinene	Sesquiterpene
70	32.24	0.29%	beta-Selinene	Sesquiterpene
71	32.37	0.38%	gamma-Murolene	Sesquiterpene

ESSENTIAL VALIDATION SERVICES | 74 / SW 27TH AVE GAINESVILLE, FLORIDA 32601 | 352-301-5044

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72	32.54	0.63%	Bicyclogermacrene	Sesquiterpene
73	32.63	0.05%	1-epi-Bicyclosesquiphellandrene	Monoterpene
74	32.72	0.25%	alpha-Muurolene	Sesquiterpene
75	32.86	0.24%	28.95 Dihydro agarofuran<beta->	0.00
76	33.06	0.16%	(E,E)-alpha-Farnesene	Sesquiterpene
77	33.26	0.39%	gamma-Cadinene	Sesquiterpene
78	33.51	1.12%	beta-Cadinene	Sesquiterpene
79	33.59	0.22%	trans-Calamenene	Sesquiterpene
80	33.89	0.57%	30.05 Citronellyl butanoate	0.00
81	34.03	0.29%	Zonarene	Sesquiterpene
82	34.16	0.11%	alpha-Cadinene	Sesquiterpene
83	34.33	0.08%	alpha-Calacorene	Sesquiterpene
84	34.50	0.32%	alpha-Agarofuran	Sesquiterpene Ether
85	34.67	0.07%	Elemol	Sesquiterpenol
86	35.08	1.14%	Geranyl butyrate	Monoterpene Ester
87	35.38	0.06%	Maaliol	Sesquiterpenol
88	35.68	0.23%	Spathulenol	Sesquiterpenol
89	35.85	0.19%	Caryophyllene oxide	Sesquiterpene Ether
90	36.02	0.95%	2-Phenylethyl tiglate	Phenolic Ester
91	36.35	0.05%	Globulol	Sesquiterpenol
92	36.67	0.09%	Geranyl 2-methylbutyrate	Monoterpene Ester
93	36.90	0.15%	Viridiflorol	Sesquiterpenol
94	37.19	0.21%	1,10-di-epi-Cubenol	Sesquiterpenol
95	37.41	4.83%	10-epi-gamma-Eudesmol	Sesquiterpenol
96	37.58	0.12%	33.82 Citronellyl pentanoate	0.00
97	37.82	0.16%	gamma-Eudesmol	Sesquiterpenol
98	38.26	0.52%	Hinesol	Sesquiterpenol
99	38.59	0.49%	beta-Eudesmol	Sesquiterpenol
100	38.83	0.02%	7-epi-alpha-Eudesmol	Sesquiterpenol
101	39.07	0.31%	Citronellyl tiglate	Monoterpene Ester
102	39.82	0.09%	35.46 Citronellyl tiglate<E->	0.00
103	40.17	0.02%	Junipercamphor	Sesquiterpene Ketone
104	40.31	1.21%	Geranyl tiglate	Monoterpene Ester
105	42.22	0.08%	Geranyl caproate	Monoterpene Ester
106	45.58	0.08%	(E,E)-Farnesyl acetate	Sesquiterpene Ester
107	48.80	0.02%	Geranyl caprylate	Monoterpene Ester