



Rose Geranium

Pelargonium roseum

Batch No. MA-59194
Madagascar

Monoterpenes	1.452%	Esters	25.34%	Sesquiterpenes	15.53%
α pinene	0.50	citronellyl formate	10.63	6,9 guaiadiene	6.87
limonene	0.25	geranyl formate	5.60	β bourbonene	1.76
myrcene	0.17	geranyl tiglate	1.81	β caryophyllene	1.34
(Z) β ocimene	0.10	neryl propionate	1.56	germacrene d	0.99
(E) β ocimene	0.09	geranyl butyrate	1.35	α guaiene	0.77
para-cymene	0.09	citronellyl butyrate	0.85	β cadinene	0.62
α phellandrene	0.09	2-phenylethyl tiglate	0.65	aromadendrene	0.57
β pinene	0.05	geranyl isobutyrate	0.63	α copaene	0.41
alloocimene	0.04	geranyl 2-methylbutyrate	0.48	β selinene	0.31
terpinolene	0.03	citronellyl acetate	0.43	α humulene	0.3
tricyclene	0.01	citronellyl tiglate	0.38	α murolene	0.21
camphene	0.01	neryl formate	0.32	β elemene	0.20
sabinene	0.01	nerolidyl acetate	0.22	β gurjunene	0.18
para-cymenene	0.01	phenylethyl isobutyrate	0.15	γ cadinene	0.17
		geranyl caproate	0.08	trans calamenene	0.17
		2-phenylethyl propionate	0.08	allo-aromadendrene	0.13
		geranyl caprylate	0.05	α selinene	0.11
		(E,E) farnesyl acetate	0.04	α cubebene	0.09
		neryl acetate	0.03	(Z) muurola-4(14),5-diene	0.09
Monoterpenols	39.3%	Ethers	1.96%	(E) cadina-1,4-diene	0.08
citronellol	20.48	cis-Rose oxide	1.22	α calacorene	0.06
geraniol	12.30	trans-Rose oxide	0.51	α ylangene	0.03
linalol	4.18	1,8-cineole	0.23	α gurjunene	0.03
nerol	0.58			(E,E) α farnesene	0.03
α terpineol	0.39			δ elemene	0.01
isopulegol	0.36				
neo-isopulegol	0.24				
cis-linalool oxide	0.2				
neoisomenthol	0.16				
trans-myrtanol	0.14				
(E) linalool oxide	0.08				
terpinen-4-ol	0.06	Ketones	7.82%	Sesquiterpenols	0.66%
neo-dihydrocarveol	0.04	isomenthone	6.48	1,10-di-epi-Cubenol	0.22
menthol	0.03	menthone	0.94	(Z) nerolidol	0.17
cis-isogeraniol	0.03	carvone	0.22	1-epi-cubenol	0.16
(E) sabinene hydrate	0.02	6-methyl-3,5-heptadien-2-one	0.09	maaliol	0.06
myrcenol	0.01	6-methyl-5-hepten-2-one	0.07	junenol	0.04
		para-menth-1,5-dien-8-ol	0.02	spathulenol	0.01
Aldehydes	2.96%			Other	0.1%
citronellal	1.69			3-methylpentanol	0.03
geranal	0.68			manool oxide	0.03
citral	0.58			1-octen-3-ol	0.01
nonanal	0.01			1 hexanol	0.01
				(E) hex-3-en-1-ol	0.01
				1-octanol	0.01

Client



Source



Organic Rose Geranium (*Pelargonium roseum*)
MA-59194

Organic Rose Geranium (*Pelargonium*)

Batch #: MA-59194
Type: Essential Oil
CAS Number: ... 90082-55-6

Nature's Gift

Sample



Website

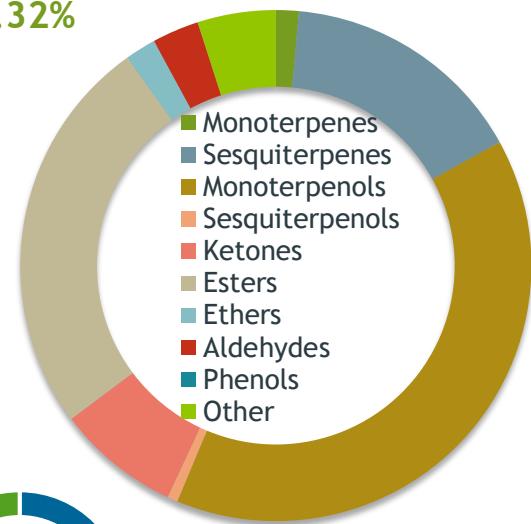


Primary

20.48% Citronellol
12.30% Geraniol
10.63% Citronellyl formate

Monoterpenols

39.32%



Percentage Identified

95.12%

Result

APPROVED

Conclusion

No adulterants, diluents, or contaminants were detected via this method. This oil meets the expected profile for genuine Essential Oil of Organic Rose Geranium (*Pelargonium roseum*)

Internal Number: | EVS-4576

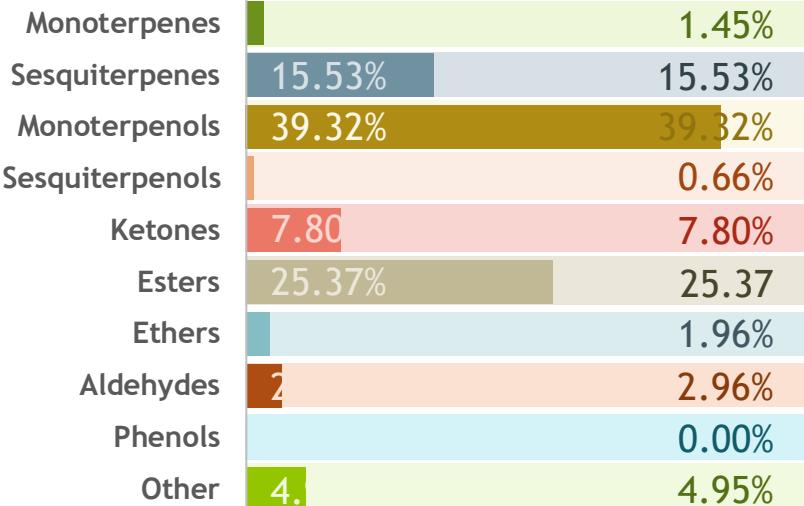


Essential Validation
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- Essential Oil testing is performed by using qualitative GC-MS. Method: SOP.T.01 Client Method
- This report may not be published without the consent of Essential Validation Services.
- Chromatograph image may be requested
- This report is valid for 1 year from the analyzed date

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Total Percentage	95.12%			
Number	RT	Area %	Compound Name	Chemical Family
1	5.35	0.03%	3-Methylpentanol	Aliphatic Alcohol
2	5.61	0.01%	(E)-Hex-3-en-1-ol	Aliphatic Alcohol
3	6.04	0.01%	1-Hexanol	Aliphatic Alcohol
4	7.73	0.01%	Tricyclene	Monoterpene
5	8.15	0.50%	alpha-Pinene	Monoterpene
6	8.75	0.01%	Camphene	Monoterpene
7	9.70	0.01%	Sabinene	Monoterpene
8	9.86	0.05%	beta-Pinene	Monoterpene
9	10.08	0.01%	1-Octen-3-ol	Aliphatic Alcohol
10	10.25	0.07%	6-Methyl-5-hepten-2-one	Aliphatic Ketone
11	10.45	0.17%	Myrcene	Monoterpene
12	11.09	0.09%	alpha-Phellandrene	Monoterpene
13	11.89	0.09%	para-Cymene	Monoterpene
14	12.10	0.25%	Limonene	Monoterpene
15	12.20	0.23%	1,8-Cineole	Monoterpene Ether
16	12.48	0.10%	(Z)-beta-Ocimene	Monoterpene
17	12.94	0.09%	(E)-beta-Ocimene	Monoterpene
18	13.40	0.02%	trans-Sabinene hydrate	Monoterpenol
19	13.96	0.20%	cis-Linalool oxide (5) (furanoid)	Monoterpenol
20	14.09	0.01%	1-Octanol	Aliphatic Alcohol
21	14.64	0.03%	Terpinolene	Monoterpene
22	14.69	0.08%	trans-Linalool oxide (5) (furanoid)	Monoterpenol
23	14.84	0.01%	para-Cymenene	Monoterpene
24	15.38	4.18%	Linalool	Monoterpenol
25	15.46	0.09%	6-Methyl-3,5-heptadien-2-one	Monoterpene Ketone
26	15.60	0.01%	Nonanal	Aliphatic Aldehyde
27	15.79	1.22%	cis-Rose oxide	Monoterpene Ether
28	16.32	0.01%	Myrcenol	Monoterpenol
29	16.51	0.51%	trans-Rose oxide	Monoterpene Ether
30	16.66	0.04%	Alloocimene	Monoterpene
31	17.48	0.36%	Isopulegol	Monoterpenol
32	17.76	1.69%	Citronellal	Monoterpene Aldehyde
33	17.81	0.94%	Menthone	Monoterpene Ketone
34	17.92	0.24%	neo-Isopulegol	Monoterpenol
35	18.24	6.48%	Isomenthone	Monoterpene Ketone

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Source

Organic Rose Geranium (*Pelargonium roseum*)

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Number	RT	Area %	Compound Name	Chemical Family
36	18.57	0.02%	para-Mentha-1,5-dien-8-ol	Monoterpene Ketone
37	18.87	0.03%	Menthol	Monoterpenol
38	18.97	0.06%	Terpinen-4-ol	Monoterpenol
39	19.33	0.16%	Neoisomenthol	Monoterpenol
40	19.65	0.39%	alpha-Terpineol	Monoterpenol
41	20.95	0.04%	neo-Dihydrocarveol	Monoterpenol
42	21.07	0.58%	Nerol	Monoterpenol
43	21.34	20.48%	Citronellol	Monoterpenol
44	21.66	0.58%	Citral	Monoterpene Aldehyde
45	21.85	0.22%	Carvone	Monoterpene Ketone
46	22.37	12.30%	Geraniol	Monoterpenol
47	22.74	0.14%	trans-Myrtanol	Monoterpenol
48	22.87	0.03%	cis-Isogeraniol	Monoterpenol
49	23.01	0.68%	Geranial	Monoterpene Aldehyde
50	23.34	10.63%	Citronellyl formate	Monoterpene Ester
51	23.44	0.32%	Neryl formate	Monoterpene Ester
52	24.41	5.60%	Geranyl formate	Monoterpene Ester
53	25.76	0.01%	delta-Elemene	Sesquiterpene
54	26.43	0.09%	alpha-Cubebene	Sesquiterpene
55	26.54	0.08%	2-Phenylethyl propionate	Monoterpene Ester
56	26.65	0.43%	Citronellyl acetate	Monoterpene Ester
57	27.02	0.03%	Neryl acetate	Monoterpene Ester
58	27.34	0.03%	alpha-Ylangene	Sesquiterpene
59	27.61	0.41%	alpha-Copaene	Sesquiterpene
60	27.93	1.76%	beta-Bourbonene	Sesquiterpene
61	28.23	0.20%	beta-Elemene	Sesquiterpene
62	28.39	0.15%	Phenylethyl isobutyrate	Phenolic ester
63	28.93	0.03%	alpha-Gurjunene	Sesquiterpene
64	29.41	1.34%	beta-Caryophyllene	Sesquiterpene
65	29.85	0.18%	beta-Gurjunene	Sesquiterpene
66	30.13	0.77%	alpha-Guaiene	Sesquiterpene
67	30.39	6.87%	6,9-Guaiadiene	Sesquiterpene
68	30.66	0.57%	Aromadendrene	Sesquiterpene
69	30.88	0.30%	alpha-Humulene	Sesquiterpene
70	31.07	0.13%	allo-Aromadendrene	Sesquiterpene
71	31.65	1.56%	Neryl propionate	Monoterpene Ester

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72	31.94	0.99%	Germacrene D	Sesquiterpene
73	32.24	0.31%	beta-Selinene	Sesquiterpene
74	32.36	0.09%	cis-Muurola-4(14),5-diene	Sesquiterpene
75	32.54	0.11%	alpha-Selinene	Sesquiterpene
76	32.71	0.21%	alpha-Muurolene	Sesquiterpene
77	33.06	0.03%	(E,E)-alpha-Farnesene	Sesquiterpene
78	33.21	0.63%	Geranyl isobutyrate	Monoterpene Ester
79	33.50	0.62%	beta-Cadinene	Sesquiterpene
80	33.59	0.17%	trans-Calamenene	Sesquiterpene
81	33.64	0.17%	gamma-Cadinene	Sesquiterpene
82	33.89	0.85%	Citronellyl butyrate	Monoterpene Ester
83	34.02	0.08%	trans-Cadina-1,4-diene	Sesquiterpene
84	34.17	0.17%	(Z)-Nerolidol	Sesquiterpenol
85	34.33	0.06%	alpha-Calacorene	Sesquiterpene
86	35.08	1.35%	Geranyl butyrate	Monoterpene Ester
87	35.68	0.01%	Spathulenol	Sesquiterpenol
88	36.01	0.65%	2-Phenylethyl tiglate	Phenolic Ester
89	36.18	0.06%	Maaliol	Sesquiterpenol
90	36.66	0.48%	Geranyl 2-methylbutyrate	Monoterpene Ester
91	37.18	0.22%	1,10-di-epi-Cubenol	Sesquiterpenol
92	37.37	0.04%	Junenol	Sesquiterpenol
93	38.20	0.16%	1-epi-Cubenol	Sesquiterpenol
94	39.07	0.38%	Citronellyl tiglate	Monoterpene Ester
95	40.32	1.81%	Geranyl tiglate	Monoterpene Ester
96	40.96	0.22%	Nerolidyl acetate	Monoterpene Ester
97	42.22	0.08%	Geranyl caproate	Monoterpene Ester
98	45.57	0.04%	(E,E)-Farnesyl acetate	Sesquiterpene Ester
99	48.79	0.05%	Geranyl caprylate	Monoterpene Ester
100	50.05	0.03%	Manool oxide	Diterpene Ester

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