

Client



Source



Geranium (*Pelargonium graveolens*)
MA-58926

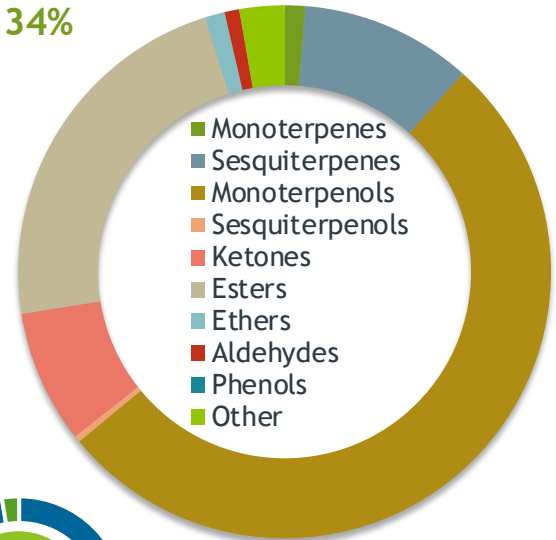
Sample

Geranium (*Pelargonium graveolens*)

Batch #:..... MA-58926
Type:..... Essential Oil
CAS Number:... 8000-46-2
Nature's Gift

Monoterpenols

52.34%



Client

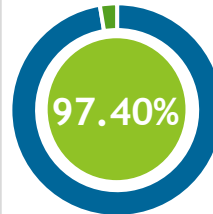


Website



Primary

28.21% | Citronellol
14.93% | Geraniol
10.23% | Citronellyl formate



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 graveolens*)

Internal Number: | EVS-2929



Essential Validation Services

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

317.361.5044 |
<https://essentialvalidation.com/>
adam@essentialvalidation.com

| | |
|-----------------|--------|
| Monoterpenes | 1.24% |
| Sesquiterpenes | 10.43% |
| Monoterpenols | 52.34% |
| Sesquiterpenols | 0.39% |
| Ketones | 8.07% |
| Esters | 22.71% |
| Ethers | 1.20% |
| Aldehydes | 0.89% |
| Phenols | 0.00% |
| Other | 2.73% |

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MA-58926

| Total Percentage | | 97.40% | | | |
|------------------|-------|--------|-------------------------------------|---------|----------------------|
| Number | RT | Area % | Compound Name | RI | Chemical Family |
| 1 | 9.25 | 0.01% | 1-Hexanol | 863.00 | Aliphatic Alcohol |
| 2 | 12.72 | 0.48% | alpha-Pinene | 936.10 | Monoterpene |
| 3 | 14.31 | 0.12% | 1-Octen-3-ol | 980.00 | Aliphatic Alcohol |
| 4 | 14.94 | 0.03% | 6-Methyl-5-hepten-2-one | 982.00 | Aliphatic Ketone |
| 5 | 15.12 | 0.21% | Myrcene | 989.20 | Monoterpene |
| 6 | 15.67 | 0.04% | alpha-Phellandrene | 1002.00 | Monoterpene |
| 7 | 16.51 | 0.05% | para-Cymene | 1024.30 | Monoterpene |
| 8 | 16.69 | 0.22% | Limonene | 1029.50 | Monoterpene |
| 9 | 16.79 | 0.03% | 1,8-Cineole | 1031.80 | Monoterpene Ether |
| 10 | 17.06 | 0.13% | (Z)-beta-Ocimene | 1037.80 | Monoterpene |
| 11 | 17.48 | 0.11% | (E)-beta-Ocimene | 1047.70 | Monoterpene |
| 12 | 18.49 | 0.20% | cis-Linalool oxide (5) (furanoid) | 1075.10 | Monoterpenol |
| 13 | 19.14 | 0.14% | trans-Linalool oxide (5) (furanoid) | 1092.20 | Monoterpenol |
| 14 | 19.62 | 7.87% | Linalool | 1099.00 | Monoterpenol |
| 15 | 19.79 | 0.04% | 6-Methyl-3,5-heptadien-2-one | 1105.00 | Monoterpene Ketone |
| 16 | 20.04 | 0.84% | cis-Rose oxide | 1110.00 | Monoterpene Ether |
| 17 | 20.69 | 0.33% | trans-Rose oxide | 1127.33 | Monoterpene Ether |
| 18 | 21.74 | 1.52% | Menthone | 1155.00 | Monoterpene Ketone |
| 19 | 22.17 | 6.33% | Isomenthone | 1164.33 | Monoterpene Ketone |
| 20 | 22.89 | 0.14% | Menthol | 1177.40 | Monoterpenol |
| 21 | 23.15 | 0.64% | alpha-Terpineol | 1191.71 | Monoterpenol |
| 22 | 24.55 | 28.21% | Citronellol | 1229.25 | Monoterpenol |
| 23 | 24.95 | 0.36% | Neral | 1246.57 | Monoterpene Aldehyde |
| 24 | 25.49 | 14.93% | Geraniol | 1255.29 | Monoterpenol |
| 25 | 25.73 | 0.21% | trans-Myrtanol | 1258.00 | Monoterpenol |
| 26 | 25.99 | 0.53% | Geranial | 1272.00 | Monoterpene Aldehyde |
| 27 | 26.16 | 10.23% | Citronellyl formate | 1279.00 | Monoterpene Ester |
| 28 | 26.34 | 0.24% | Neryl formate | 1280.50 | Monoterpene Ester |
| 29 | 27.08 | 5.21% | Geranyl formate | 1304.35 | Monoterpene Ester |
| 30 | 28.75 | 0.42% | Citronellyl acetate | 1357.83 | Monoterpene Ester |
| 31 | 29.75 | 0.77% | Geranyl acetate | 1379.20 | Monoterpene Ester |
| 32 | 30.07 | 0.66% | beta-Bourbonene | 1388.70 | Sesquiterpene |
| 33 | 30.22 | 0.25% | beta-Elemene | 1389.20 | Sesquiterpene |
| 34 | 31.22 | 1.17% | beta-Caryophyllene | 1427.14 | Sesquiterpene |
| 35 | 31.49 | 0.07% | trans-alpha-Bergamotene | 1435.00 | Sesquiterpene |

ESSENTIAL VALIDATION SERVICES | 747 SW 2ND AVE GAINESVILLE, FLORIDA 32601 | 317-361-5044

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Geranium (Pelargonium graveolens)

MA-58926

| Number | RT | Area % | Compound Name | RI | Chemical Family |
|--------|-------|--------|------------------------|---------|----------------------|
| 36 | 31.66 | 0.48% | Citronellyl propionate | 1444 | Sesquiterpene |
| 37 | 31.92 | 5.72% | 6,9-Guaiadiene | 1446.00 | Sesquiterpene |
| 38 | 32.11 | 0.35% | Neryl propionate | 1448.50 | Monoterpene Ester |
| 39 | 32.30 | 0.23% | Aromadendrene | 1449.80 | Sesquiterpene |
| 40 | 32.63 | 0.94% | Geranyl propionate | 1477.33 | Monoterpene Ester |
| 41 | 32.92 | 0.22% | gamma-Murolene | 1478.86 | Sesquiterpene |
| 42 | 33.14 | 0.76% | Germacrene D | 1484.71 | Sesquiterpene |
| 43 | 33.32 | 0.20% | beta-Selinene | 1487.57 | Sesquiterpene |
| 44 | 33.83 | 0.45% | Neryl isobutanoate | 1490.15 | Sesquiterpene Ester |
| 45 | 34.27 | 0.63% | gamma-Cadinene | 1515.29 | Sesquiterpene |
| 46 | 34.36 | 0.52% | delta-Cadinene | 1524.14 | Sesquiterpene |
| 47 | 34.79 | 0.15% | Furopelargone A | 1540.15 | Sesquiterpene Ketone |
| 48 | 35.24 | 1.29% | Geranyl butyrate | 1558.00 | Monoterpene Ester |
| 49 | 36.10 | 0.40% | Phenylethyl tiglate | 1594.00 | Phenolic Ester |
| 50 | 36.24 | 0.56% | Geranyl isovalerate | 1606.00 | Aliphatic Ester |
| 51 | 36.64 | 0.11% | gamma-Eudesmol | 1608.00 | Sesquiterpenol |
| 52 | 36.99 | 0.05% | 1,10-di-epi-Cubenol | 1612.29 | Sesquiterpenol |
| 53 | 37.11 | 0.11% | 1-epi-Cubenol | 1628.00 | Sesquiterpenol |
| 54 | 37.87 | 0.12% | Cubenol | 1642.14 | Sesquiterpenol |
| 55 | 38.29 | 0.32% | Citronellyl tiglate | 1667.00 | Monoterpene Ester |
| 56 | 39.27 | 0.98% | Geranyl tiglate | 1700.30 | Monoterpene Ester |
| 57 | 40.66 | 0.07% | Geranyl caproate | 1726.00 | Monoterpene Ester |
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