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Balancing Body, Mind and Spirit with Pure Essential Oils
Since 1995
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Geranium Pelargonium graveolens

Batch No. ZA-59354
South Africa

Monoterpenes 1.06%

| | |
|-------------------------------|------|
| α pinene | 0.40 |
| limonene | 0.16 |
| myrcene | 0.15 |
| (Z) β ocimene | 0.08 |
| α phellandrene | 0.08 |
| (E) β ocimene | 0.06 |
| 1-epi-bicyclosquiphellandrene | 0.05 |
| para-cymene | 0.05 |
| alloocimene | 0.03 |

Monoterpenols 52.98%

| | |
|---------------------------|-------|
| citronellol | 24.10 |
| geraniol | 16.46 |
| linalool | 10.30 |
| α terpineol | 1.18 |
| nerol | 0.43 |
| cis-linalool oxide | 0.18 |
| trans-linalool oxide | 0.10 |
| neoisomenthol | 0.09 |
| (Z) myrtanol | 0.08 |
| para-menth-1-en-9-ol | 0.05 |
| para-mentha-1,5-dien-8-ol | 0.01 |

Aldehydes 0.82%

| | |
|---------------|------|
| geranial | 0.50 |
| neral | 0.28 |
| (Z) isocitral | 0.04 |

Esters 23.02%

| | |
|--------------------------|------|
| citronellyl formate | 9.20 |
| geranyl formate | 5.97 |
| geranyl tiglate | 1.78 |
| geranyl butyrate | 1.26 |
| geranyl propionate | 1.19 |
| citronellyl butyrate | 0.72 |
| 2-phenylethyl tiglate | 0.41 |
| geranyl 2-methylbutyrate | 0.37 |
| citronellyl acetate | 0.35 |
| geranyl acetate | 0.34 |
| geranyl isobutyrate | 0.32 |
| citronellyl tiglate | 0.27 |
| neryl formate | 0.25 |
| geranyl valerate | 0.11 |
| geranyl isovalerate | 0.10 |
| phenylethyl isobutyrate | 0.08 |
| (E) citronellyl tiglate | 0.08 |
| neryl propionate | 0.05 |
| citronellol isobutanoate | 0.05 |
| 2-phenylethyl propionate | 0.04 |
| (E,E) farnesyl acetate | 0.03 |
| geranyl caprylate | 0.03 |
| citronellyl pentanoate | 0.02 |

Ethers 1.2%

| | |
|------------------|------|
| cis-Rose oxide | 0.84 |
| trans-Rose oxide | 0.36 |
| 1,8-cineole | |

Ketones 7.17%

| | |
|------------------------------|------|
| isomenthone | 5.80 |
| menthone | 1.32 |
| 6-methyl-5-hepten-2-one | 0.04 |
| 6-methyl-3,5-heptadien-2-one | 0.01 |

Sesquiterpenes 11.22%

| | |
|--------------------------|------|
| 6,9 guaiaadiene | 5.43 |
| β caryophyllene | 0.90 |
| β bourbonene | 0.82 |
| germacrene d | 0.79 |
| α guaiane | 0.52 |
| δ cadinene | 0.41 |
| aromadendrene | 0.40 |
| α copaene | 0.26 |
| β selinene | 0.24 |
| α humulene | 0.20 |
| zonarene | 0.20 |
| γ muurolene | 0.19 |
| β elemene | 0.14 |
| α muurolene | 0.13 |
| β copaene | 0.11 |
| α selinene | 0.09 |
| γ cadinene | 0.09 |
| allo-aromadendrene | 0.07 |
| β cadinene | 0.06 |
| (E) cadiena-1,4-diene | 0.06 |
| α cubebene | 0.05 |
| α calacorene | 0.03 |
| (E,E) α farnesene | 0.02 |
| α gurjunene | 0.01 |

Sesquiterpenols 0.34%

| | |
|---------------------|------|
| (Z) nerolidol | 0.14 |
| 1,10-di-epi-Cubenol | 0.12 |
| 1-epi-Cubenol | 0.07 |
| junenol | 0.01 |

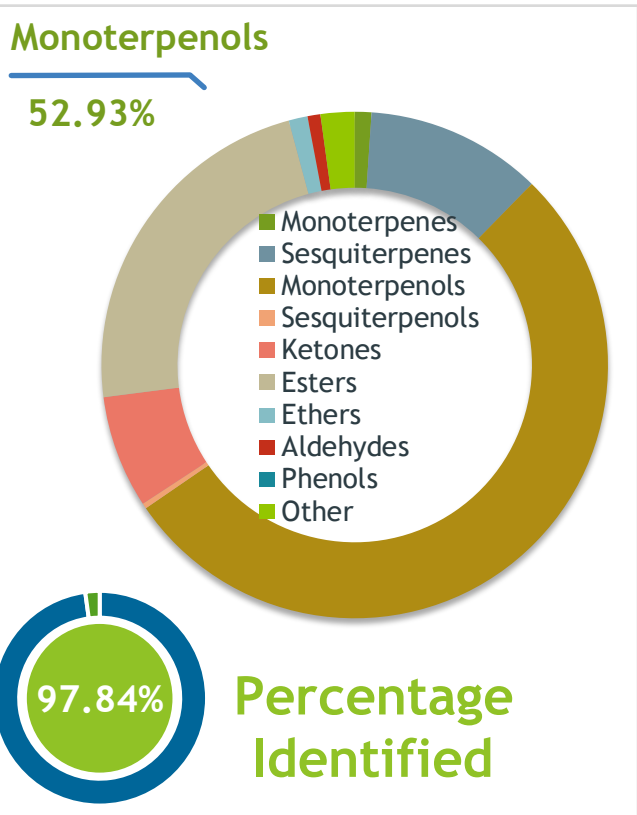
Other 0.03%

| | |
|---------------|------|
| 2E tridecenol | 0.03 |
|---------------|------|

Client  **Source** 

Geranium (Pelargonium graveolens (Pelargonium X asperum))
ZA-59354

Sample Geranium (Pelargonium graveolens)
Batch #:..... | ZA-59354
Type:..... | Essential Oil
CAS Number:.....
Nature's Gift



Client  **Website** 

Primary

- 24.10% Citronellol
- 16.46% Geraniol
- 10.30% Linalool

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 (Pelargonium X asperum))

Internal Number: | EVS-5820


Essential Validation Services
747 SW 2nd Ave IMB 12 Suite 306
Gainesville, FL 32601
317.361.5044 |
<https://essentialvalidationservices.com/>
Alan Christen

| | |
|-----------------|--------|
| Monoterpenes | 1.06% |
| Sesquiterpenes | 11.22 |
| Monoterpenols | 52.93% |
| Sesquiterpenols | 0.34% |
| Ketones | 7.17% |
| Esters | 22.76% |
| Ethers | 1.20% |
| Aldehydes | 0.82% |
| Phenols | 0.00% |
| Other | 2.16% |

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Client



Source



*Geranium (Pelargonium graveolens
(Pelargonium X asperum))*
ZA-59354

| Total Percentage | | 97.84% | | |
|------------------|-------|--------|-------------------------------------|----------------------|
| Number | RT | Area % | Compound Name | Chemical Family |
| 1 | 8.38 | 0.40% | alpha-Pinene | Monoterpene |
| 2 | 10.51 | 0.04% | 6-Methyl-5-hepten-2-one | Aliphatic Ketone |
| 3 | 10.70 | 0.15% | Myrcene | Monoterpene |
| 4 | 11.35 | 0.08% | alpha-Phellandrene | Monoterpene |
| 5 | 12.16 | 0.05% | para-Cymene | Monoterpene |
| 6 | 12.36 | 0.16% | Limonene | Monoterpene |
| 7 | 12.74 | 0.08% | (Z)-beta-Ocimene | Monoterpene |
| 8 | 13.20 | 0.06% | (E)-beta-Ocimene | Monoterpene |
| 9 | 14.23 | 0.18% | cis-Linalool oxide (5) (furanoid) | Monoterpenol |
| 10 | 14.96 | 0.10% | trans-Linalool oxide (5) (furanoid) | Monoterpenol |
| 11 | 15.69 | 10.30% | Linalool | Monoterpenol |
| 12 | 15.77 | 0.01% | 6-Methyl-3,5-heptadien-2-one | Monoterpene Ketone |
| 13 | 16.06 | 0.84% | cis-Rose oxide | Monoterpene Ether |
| 14 | 16.78 | 0.36% | trans-Rose oxide | Monoterpene Ether |
| 15 | 16.92 | 0.03% | Alloocimene | Monoterpene |
| 16 | 17.77 | 0.04% | (Z)-isocitral | Monoterpene Aldehyde |
| 17 | 18.10 | 1.32% | Menthone | Monoterpene Ketone |
| 18 | 18.51 | 5.80% | Isomenthone | Monoterpene Ketone |
| 19 | 18.88 | 0.01% | para-Mentha-1,5-dien-8-ol | Monoterpenol |
| 20 | 19.62 | 0.09% | Neoisomenthol | Monoterpenol |
| 21 | 19.94 | 1.18% | alpha-Terpineol | Monoterpenol |
| 22 | 21.34 | 0.43% | Nerol | Monoterpenol |
| 23 | 21.60 | 24.10% | Citronellol | Monoterpenol |
| 24 | 21.93 | 0.28% | Neral | Monoterpene Aldehyde |
| 25 | 22.65 | 16.46% | Geraniol | Monoterpenol |
| 26 | 23.03 | 0.08% | cis-Myrtanol | Monoterpenol |
| 27 | 23.27 | 0.50% | Geranial | Monoterpene Aldehyde |
| 28 | 23.57 | 9.20% | Citronellyl formate | Monoterpene Ester |
| 29 | 23.68 | 0.25% | Neryl formate | Monoterpene Ester |
| 30 | 24.66 | 5.97% | Geranyl formate | Monoterpene Ester |
| 31 | 24.88 | 0.05% | 19.96 Menth-1-en-9-ol<para-> | 0.00 |
| 32 | 26.66 | 0.05% | alpha-Cubebene | Sesquiterpene |
| 33 | 26.79 | 0.04% | 2-Phenylethyl propionate | Monoterpene Ester |
| 34 | 26.88 | 0.35% | Citronellyl acetate | Monoterpene Ester |
| 35 | 27.86 | 0.26% | alpha-Copaene | Sesquiterpene |

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Client



Source



*Geranium (Pelargonium graveolens
(Pelargonium X asperum))*
ZA-59354

| Number | RT | Area % | Compound Name | Chemical Family |
|--------|--------|--------|---------------------------------|-------------------|
| 36 | 28.101 | 0.34% | Geranyl acetate | Sesquiterpene |
| 37 | 28.17 | 0.82% | beta-Bourbonene | Sesquiterpene |
| 38 | 28.48 | 0.14% | beta-Elemene | Sesquiterpene |
| 39 | 28.64 | 0.08% | Phenylethyl isobutyrate | Phenolic ester |
| 40 | 29.15 | 0.01% | alpha-Gurjunene | Sesquiterpene |
| 41 | 29.65 | 0.90% | beta-Caryophyllene | Sesquiterpene |
| 42 | 30.09 | 0.11% | beta-Copaene | Sesquiterpene |
| 43 | 30.36 | 0.52% | alpha-Guaiene | Sesquiterpene |
| 44 | 30.61 | 5.43% | 6,9-Guaiadiene | Sesquiterpene |
| 45 | 30.89 | 0.40% | Aromadendrene | Sesquiterpene |
| 46 | 31.00 | 0.05% | Neryl propionate | Monoterpene Ester |
| 47 | 31.12 | 0.20% | alpha-Humulene | Sesquiterpene |
| 48 | 31.30 | 0.07% | allo-Aromadendrene | Sesquiterpene |
| 49 | 31.86 | 1.19% | Geranyl propionate | Monoterpene Ester |
| 50 | 32.18 | 0.79% | Germacrene D | Sesquiterpene |
| 51 | 32.29 | 0.05% | 28.07 Citronellol isobutanoate | 0.00 |
| 52 | 32.37 | 0.19% | gamma-Murolene | Sesquiterpene |
| 53 | 32.48 | 0.24% | beta-Selinene | Sesquiterpene |
| 54 | 32.60 | 0.05% | 1-epi-Bicyclosesquiphellandrene | Monoterpene |
| 55 | 32.78 | 0.09% | alpha-Selinene | Sesquiterpene |
| 56 | 32.94 | 0.13% | alpha-Murolene | Sesquiterpene |
| 57 | 33.12 | 0.06% | beta-Cadinene | Sesquiterpene |
| 58 | 33.27 | 0.02% | (E,E)-alpha-Farnesene | Sesquiterpene |
| 59 | 33.41 | 0.32% | Geranyl isobutyrate | Monoterpene Ester |
| 60 | 33.49 | 0.09% | gamma-Cadinene | Sesquiterpene |
| 61 | 33.73 | 0.41% | delta-Cadinene | Sesquiterpene |
| 62 | 33.87 | 0.20% | Zonarene | Sesquiterpene |
| 63 | 34.10 | 0.72% | Citronellyl butyrate | Monoterpene Ester |
| 64 | 34.25 | 0.06% | trans-Cadina-1,4-diene | Sesquiterpene |
| 65 | 34.39 | 0.14% | (Z)-Nerolidol | Sesquiterpenol |
| 66 | 34.57 | 0.03% | alpha-Calacorene | Sesquiterpene |
| 67 | 35.29 | 1.26% | Geranyl butyrate | Monoterpene Ester |
| 68 | 35.75 | 0.03% | 31.62 Tridecenol<2E-> | 0.00 |
| 69 | 36.25 | 0.41% | 2-Phenylethyl tiglate | Phenolic Ester |
| 70 | 36.86 | 0.37% | Geranyl 2-methylbutyrate | Monoterpene Ester |
| 71 | 37.15 | 0.10% | Geranyl isovalerate | Aliphatic Ester |

