

Cistus

Cistus ladanifer

Batch No. SP-59054

Spain

Monoterpenes 13.57%

| | |
|-------------------------|------|
| para-cymene | 2.77 |
| limonene | 2.33 |
| para-cymenene | 2.11 |
| γ terpinene | 1.55 |
| thuja-2,4(10)-diene | 0.97 |
| tricyclene | 0.85 |
| α terpinene | 0.81 |
| terpinolene | 0.55 |
| β pinene | 0.46 |
| o-cymene | 0.43 |
| α phellandrene | 0.31 |
| α thujene | 0.16 |
| (Z) β ocimene | 0.09 |
| sabinene | 0.08 |
| Δ 2 carene | 0.06 |
| 1,3,8-para-menthatriene | 0.04 |

Monoterpenols 7.96%

| | |
|-------------------------------|------|
| α pinocarveol | 2.84 |
| borneol | 1.51 |
| terpinen-4-ol | 1.08 |
| myrtenol | 0.96 |
| linalool | 0.36 |
| trans carveol | 0.30 |
| hotrienol | 0.25 |
| tetradecanol | 0.14 |
| carvacrol | 0.13 |
| para-cymen-8-ol | 0.12 |
| geraniol | 0.10 |
| limonen-10-ol | 0.10 |
| cis-para-Mentha-2,8-dien-1-ol | 0.07 |

Ketones 2.61%

| | |
|-------------------------|------|
| pinocarvone | 0.85 |
| isopinocampnone | 0.64 |
| pinocampnone | 0.27 |
| (E) tagetone | 0.25 |
| verbenone | 0.19 |
| camphor | 0.18 |
| carvone | 0.11 |
| 6 methyl 5 hepten 2 one | 0.06 |
| fenchone | 0.06 |

Aldehydes 1.98%

| | |
|---------------|------|
| α campholenal | 0.82 |
| myrtenal | 0.66 |
| nonanal | 0.16 |
| phellandral | 0.13 |
| hexadecanal | 0.11 |
| cuminal | 0.06 |
| (E) 2-decenal | 0.04 |

Ethers 1.05%

| | |
|--------------------------------|------|
| 1,8 cineole | 0.43 |
| nerol oxide | 0.27 |
| trans-Dehydroxy linalool oxide | 0.21 |
| cis-Rose oxide | 0.14 |

Esters 5.27%

| | |
|--------------------------|------|
| bornyl acetate | 4.05 |
| fenchyl acetate | 0.31 |
| myrtenyl acetate | 0.27 |
| endo-fenchyl acetate | 0.17 |
| (Z) 3-hexenyl benzoate | 0.08 |
| thujanol acetate | 0.07 |
| benzyl benzoate | 0.07 |
| geranyl acetate | 0.04 |
| trans-pinocarvyl acetate | 0.21 |

Other 5.91%

| | |
|-------------------------------------|------|
| 2,6,6-Trimethylcyclohexanone | 3.07 |
| cubeban-11-ol | 1.44 |
| (Z) ocimenone | 0.64 |
| (2E,4E)-6,6-dimethylhepta-2,4-diene | 0.44 |
| 2-Methyl-2,5-divinyltetrahydrofuran | 0.07 |
| α dihydro ionone | 0.07 |
| 2,6 dimethyl-1,5 heptadiene | 0.05 |
| 3,3,5 trimethyl cyclohexene | 0.04 |
| neric acid | 0.04 |
| m-xylene | 0.03 |
| β dihydro ionone | 0.02 |

Sesquiterpenes 6.62%

| | |
|-------------------------|------|
| allo-aromadendrene | 1.01 |
| α copaene | 0.85 |
| γ himachalene | 0.79 |
| β cadinene | 0.64 |
| aromadendrene | 0.61 |
| longicyclene | 0.56 |
| palustrol | 0.38 |
| γ calacorene | 0.29 |
| γ gurgunene | 0.23 |
| (Z) caryophyllene | 0.17 |
| α guaiene | 0.15 |
| α muurolene | 0.15 |
| trans-clamenene | 0.11 |
| γ muurolene | 0.10 |
| sativene | 0.09 |
| α cubebene | 0.07 |
| α gurjunene | 0.07 |
| trans-muurola-3,5 diene | 0.07 |
| trans-cadina-1,4-diene | 0.06 |
| (E,E) α farnesene | 0.06 |
| β selinene | 0.06 |
| α selinene | 0.05 |
| γ cadinene | 0.05 |

Sesquiterpenols 5.13%

| | |
|----------------|------|
| viridiflorol | 3.12 |
| ledol | 1.15 |
| spathulenol | 0.19 |
| β eudesmol | 0.19 |
| 1-epi-cubenol | 0.17 |
| τ muurolol | 0.13 |
| isospathulenol | 0.07 |
| α muurolol | 0.07 |
| 1 hexadecanol | 0.04 |

Phenols 0.8%

| | |
|-------------------------|------|
| eugenol | 0.20 |
| styrene | 0.14 |
| acetophenone | 0.11 |
| toluene | 0.10 |
| fenchol | 0.10 |
| para-Methylacetophenone | 0.09 |
| benzaldehyde | 0.06 |

Client



Source



Cistus (Cistus ladanifer)
SP-59054

Sample

Cistus (Cistus ladanifer)
Batch #:..... | SP-59054
Type:..... | Essential Oil
CAS Number:... | 8016-26-0
Nature's Gift

Client



Website

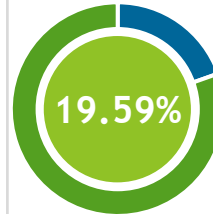
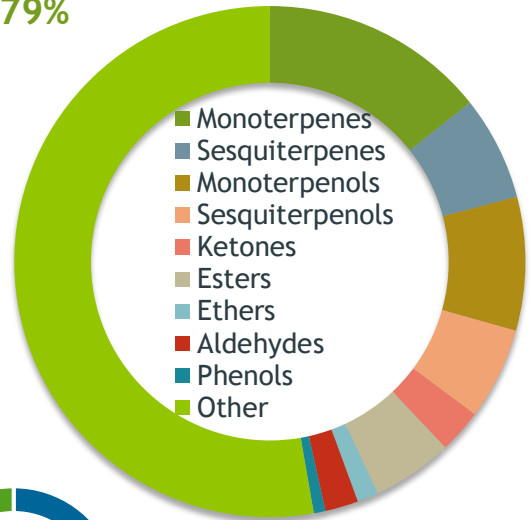


Primary

4.05%
3.12%
3.07%

Other

49.79%



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 Cistus (Cistus ladanifer)

Internal Number: | EVS-3702



Essential Validation Services

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

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

Alan Christen

| | | |
|-----------------|--------|--------|
| Monoterpenes | 13.51% | 13.51% |
| Sesquiterpenes | 6.24% | 6.24% |
| Monoterpenols | 7.96% | 7.96% |
| Sesquiterpenols | 5.51% | 5.51% |
| Ketones | 2.61% | 2.61% |
| Esters | 4.82% | 4.82% |
| Ethers | 1.26% | 1.26% |
| Aldehydes | 1.98% | 1.98% |
| Phenols | 0.70% | 0.70% |
| Other | 49.79% | 49.79% |

Client



Source

*Cistus (Cistus ladanifer)*

SP-59054

| Total Percentage | | 19.59% | | |
|------------------|-------|--------|-------------------------------------|----------------------|
| Number | RT | Area % | Compound Name | Chemical Family |
| 1 | 30.60 | 0.02% | 26.08 Ionone<dihydro-beta-> | 0.00 |
| 2 | 6.33 | 0.03% | m-Xylene | Aliphatic Alcohol |
| 3 | 5.35 | 0.04% | 3.60 Cyclohexene<3,3,5-trimethyl-> | 0.00 |
| 4 | 17.23 | 0.04% | 1,3,8-para-Menthatriene | Monoterpene |
| 5 | 23.30 | 0.04% | (E)-2-Decenal | Monoterpene Aldehyde |
| 6 | 27.10 | 0.04% | Neric acid | Monoterpene Acid |
| 7 | 28.43 | 0.04% | Geranyl acetate | Monoterpene Ester |
| 8 | 47.34 | 0.04% | 1-Hexadecanol | Sesquiterpenol |
| 9 | 5.85 | 0.05% | 2,6-Dimethyl-1,5-heptadiene | Alkadiene |
| 10 | 33.17 | 0.05% | alpha-Selinene | Sesquiterpene |
| 11 | 34.28 | 0.05% | gamma-Cadinene | Sesquiterpene |
| 12 | 9.66 | 0.06% | Benzaldehyde | Simple Phenolic |
| 13 | 10.69 | 0.06% | 6-Methyl-5-hepten-2-one | Aliphatic Ketone |
| 14 | 11.04 | 0.06% | delta-2-Carene | |
| 15 | 15.24 | 0.06% | Fenchone | Monoterpene Ketone |
| 16 | 22.30 | 0.06% | Cuminal | Monoterpene Aldehyde |
| 17 | 33.64 | 0.06% | (E,E)-alpha-Farnesene | Sesquiterpene |
| 18 | 33.75 | 0.06% | beta-Selinene | Sesquiterpene |
| 19 | 34.64 | 0.06% | trans-Cadina-1,4-diene | Sesquiterpene |
| 20 | 7.64 | 0.07% | 2-Methyl-2,5-divinyltetrahydrofuran | Furan |
| 21 | 17.37 | 0.07% | cis-para-Mentha-2,8-dien-1-ol | Monoterpenol |
| 22 | 24.63 | 0.07% | 19.98 Thujanol acetate<3-> | 0.00 |
| 23 | 27.02 | 0.07% | alpha-Cubebene | Sesquiterpene |
| 24 | 29.55 | 0.07% | alpha-Gurjunene | Sesquiterpene |
| 25 | 29.76 | 0.07% | 25.10 Ionone<dihydro-alpha-> | 0.00 |
| 26 | 31.27 | 0.07% | trans-Muurolo-3,5-diene | Sesquiterpene |
| 27 | 38.45 | 0.07% | Isospathulenol | Sesquiterpenol |
| 28 | 38.98 | 0.07% | alpha-Muurolol | Sesquiterpenol |
| 29 | 43.22 | 0.07% | Benzyl benzoate | Phenolic Ester |
| 30 | 10.16 | 0.08% | Sabinene | Monoterpene |
| 31 | 36.15 | 0.08% | (Z)-3-Hexenyl benzoate | Monoterpene Ester |
| 32 | 12.96 | 0.09% | (Z)-beta-Ocimene | Monoterpene |
| 33 | 19.67 | 0.09% | para-Methylacetophenone | Simple Phenolic |
| 34 | 28.88 | 0.09% | Sativene | Sesquiterpene |
| 35 | 3.75 | 0.10% | Toluene | Simple Phenolic |

Client



Source



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SP-59054

| Number | RT | Area % | Compound Name | Chemical Family |
|--------|-------|--------|--------------------------------|------------------------|
| 36 | 16.66 | 0.10% | Fenchol | Simple Phenolic |
| 37 | 22.81 | 0.10% | Geraniol | Monoterpenol |
| 38 | 24.47 | 0.10% | 19.67 Limonen-10-ol | 0.00 |
| 39 | 32.35 | 0.10% | gamma-Muurolene | Sesquiterpene |
| 40 | 14.15 | 0.11% | Acetophenone | Simple Phenolic |
| 41 | 22.38 | 0.11% | Carvone | Monoterpene Ketone |
| 42 | 34.20 | 0.11% | trans-Calamenene | Sesquiterpene |
| 43 | 45.90 | 0.11% | Hexadecanal | Sesquiterpene Aldehyde |
| 44 | 19.83 | 0.12% | para-Cymen-8-ol | Monoterpenol |
| 45 | 23.87 | 0.13% | Phellandral | Monoterpene Aldehyde |
| 46 | 24.95 | 0.13% | Carvacrol | Monoterpenol |
| 47 | 38.86 | 0.13% | T-Muurolol | Sesquiterpenol |
| 48 | 7.03 | 0.14% | Styrene | Phenylpropanoid |
| 49 | 16.31 | 0.14% | cis-Rose oxide | Monoterpene Ether |
| 50 | 40.26 | 0.14% | Tetradecanol | Monoterpenol |
| 51 | 30.96 | 0.15% | alpha-Guaiene | Sesquiterpene |
| 52 | 33.32 | 0.15% | alpha-Muurolene | Sesquiterpene |
| 53 | 8.32 | 0.16% | alpha-Thujene | Monoterpene |
| 54 | 16.09 | 0.16% | Nonanal | Aliphatic Aldehyde |
| 55 | 21.70 | 0.17% | 16.57 Fenchyl acetate <endo-> | 0.00 |
| 56 | 30.02 | 0.17% | cis-Caryophyllene | Sesquiterpene |
| 57 | 38.27 | 0.17% | 1-epi-Cubenol | Sesquiterpenol |
| 58 | 17.89 | 0.18% | Camphor | Monoterpene Ketone |
| 59 | 20.69 | 0.19% | Verbenone | Monoterpene Ketone |
| 60 | 36.30 | 0.19% | Spathulenol | Sesquiterpenol |
| 61 | 39.23 | 0.19% | beta-Eudesmol | Sesquiterpenol |
| 62 | 27.19 | 0.20% | Eugenol | Phenylpropanoid |
| 63 | 10.90 | 0.21% | trans-Dehydroxy linalool oxide | Monoterpene Ether |
| 64 | 25.35 | 0.21% | trans-Pinocarvyl acetate | Monoterpene Ether |
| 65 | 32.22 | 0.23% | gamma-Gurjunene | Sesquiterpene |
| 66 | 16.00 | 0.25% | Hotrienol | Monoterpenol |
| 67 | 17.94 | 0.25% | (E)-Tagetone | Monoterpene Ketone |
| 68 | 18.25 | 0.27% | Nerol oxide | Monoterpene Ether |
| 69 | 18.53 | 0.27% | Pinocamphone | Monoterpene Ketone |
| 70 | 25.96 | 0.27% | Myrtenyl acetate | Monoterpene Ester |
| 71 | 34.94 | 0.29% | gamma-Calacorene | Sesquiterpene |

Client



Source



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SP-59054

| | | | | |
|-----|-------|-------|-------------------------------------|----------------------|
| 72 | 21.29 | 0.30% | trans-Carveol | Monoterpenol |
| 73 | 11.56 | 0.31% | alpha-Phellandrene | Monoterpene |
| 74 | 22.21 | 0.31% | Fenchyl acetate | Monoterpene Ester |
| 75 | 15.86 | 0.36% | Linalool | Monoterpenol |
| 76 | 36.05 | 0.38% | Palustrol | Sesquiterpenol |
| 77 | 11.52 | 0.43% | o-Cymene | Monoterpene |
| 78 | 12.69 | 0.43% | 1,8-Cineole | Monoterpene Ether |
| 79 | 6.01 | 0.44% | (2E,4E)-6,6-dimethylhepta-2,4-diene | |
| 80 | 10.33 | 0.46% | beta-Pinene | Monoterpene |
| 81 | 15.16 | 0.55% | Terpinolene | Monoterpene |
| 82 | 27.91 | 0.56% | Longicyclene | Sesquiterpene |
| 83 | 30.88 | 0.61% | Aromadendrene | Sesquiterpene |
| 84 | 19.24 | 0.64% | Isopinocampone | Monoterpene Ketone |
| 85 | 21.86 | 0.64% | 16.94 Ocimenone<Z-> | 0.00 |
| 86 | 34.11 | 0.64% | beta-Cadinene | Sesquiterpene |
| 87 | 20.15 | 0.66% | Myrtenal | Monoterpene Aldehyde |
| 88 | 32.86 | 0.79% | gamma-Himachalene | Sesquiterpene |
| 89 | 12.05 | 0.81% | alpha-Terpinene | Monoterpene |
| 90 | 17.01 | 0.82% | alpha-Campholene aldehyde | Monoterpene Aldehyde |
| 91 | 8.15 | 0.85% | Tricyclene | Monoterpene |
| 92 | 18.62 | 0.85% | Pinocarvone | Monoterpene Ketone |
| 93 | 28.24 | 0.85% | alpha-Copaene | Sesquiterpene |
| 94 | 20.22 | 0.96% | Myrtenol | Monoterpenol |
| 95 | 9.36 | 0.97% | Thuja-2,4(10)-diene | Monoterpene |
| 96 | 31.69 | 1.01% | allo-Aromadendrene | Sesquiterpene |
| 97 | 19.51 | 1.08% | Terpinen-4-ol | Monoterpenol |
| 98 | 37.37 | 1.15% | Ledol | Sesquiterpenol |
| 99 | 37.09 | 1.44% | 32.70 Cubeban-11-ol | 0.00 |
| 100 | 19.09 | 1.51% | Borneol | Monoterpenol |
| 101 | 13.92 | 1.55% | gamma-Terpinene | Monoterpene |
| 102 | 15.35 | 2.11% | para-Cymenene | Monoterpene |
| 103 | 12.60 | 2.33% | Limonene | Monoterpene |
| 104 | 12.38 | 2.77% | para-Cymene | Monoterpene |
| 105 | 17.63 | 2.84% | alpha-Pinocarveol | Monoterpenol |
| 106 | 12.80 | 3.07% | 2,6,6-Trimethylcyclohexanone | |
| 107 | 36.99 | 3.12% | Viridiflorol | Sesquiterpenol |
| 108 | 24.25 | 4.05% | Bornyl acetate | Monoterpene Ester |

ESSENTIAL VALIDATION SERVICES | 1/4 SW 2nd AVE GAINESVILLE, FLORIDA 32601 | 311-361-5044

- 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