

Cistus *Cistus ladanifer*

Batch No. ES-59311

Spain

Monoterpenes 47.05%

α pinene	29.15
camphene	4.81
para-cymene	3.65
limonene	1.85
para-cymenene	1.67
γ terpinene	1.41
tricyclene	0.90
α terpinene	0.71
thuja-2,4(10)-diene	0.67
terpinolene	0.66
β pinene	0.55
α phellandrene	0.52
α thujene	0.16
o-cymene	0.15
sabinene	0.10
(Z) β ocimene	0.09

Monoterpenols 10.4%

α pinocarveol	4.42
borneol	1.84
terpinen-4-ol	1.77
α terpineol	1.62
linalool	0.51
para-cymen-8-ol	0.24
carvacrol	0.22
hotrienol	0.22
trans carveol	0.20
isoborneol	0.16
fenchol	0.12
(Z) para-mentha-1(7),8-dien-2-ol	0.06
tetradecanol	0.04

Esters 6.42%

bornyl acetate	4.90
myrtenyl acetate	0.41
trans-pinocarvyl acetate	0.27
linalyl acetate	0.23
fenchyl acetate	0.15
geranyl acetate	0.12
trans-carvyl acetate	0.12
3-thujanol acetate	0.11
iso-verbanyl acetate	0.11

Aldehydes 1.6%

myrtenal	0.63
α campholene aldehyde	0.58
benzaldehyde	0.12
phellandral	0.11
nonanal	0.07
cuminal	0.05
(E) 2-decenal	0.04

Ethers 1.17%

1,8 cineole	0.55
caryophyllene oxide	0.17
trans-Dehydroxy linalool oxide	0.16
cis-Rose oxide	0.15
nerol oxide	0.14

Phenols 0.49%

acetophenone	0.31
para-methylacetophenone	0.12
styrene	0.06

Sesquiterpenols 5.67%

viridiflorol	2.99
ledol	0.99
cubeban-11-ol	0.72
palustrol	0.26
α muurolol	0.15
spathulenol	0.15
1-epi-cubenol	0.13
β eudesmol	0.06
(E) nerolidol	0.05
globulol	0.05
τ cadinol	0.05
isospathulenol	0.04
gleenol	0.03

Other 0.09%

2-Methyl-2,5-divinylnetrahydrofuran	0.09
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Sesquiterpenes 9.73%

viridiflorene	3.61
allo-aromadendrene	1.01
α copaene	0.79
longicyclene	0.74
δ cadinene	0.72
aromadendrene	0.48
β caryophyllene	0.44
δ elemene	0.30
trans-clamenene	0.20
α calacorene	0.20
trans-cadina-1(6),4-diene	0.19
α muurolene	0.17
α gurjunene	0.13
γ muurolene	0.13
α guaiene	0.09
α humulene	0.09
α selinene	0.08
cadalene	0.08
sativene	0.07
cis-muurola-3,5-diene	0.07
trans-cadina-1,4-diene	0.05
eremphylene	0.05
β gurjunene	0.04

Ketones 4.01%

isopinocampnone	1.08
pinocampnone	0.50
pinocarvone	0.47
camphor	0.46
(Z) ocimenone	0.33
verbenone	0.31
carvone	0.17
(E) tagetone	0.12
2-nonanone	0.11
nopinone	0.09
6 methyl 5 hepten 2 one	0.07
camphenilone	0.07
β thujone	0.07
carvotanacetone	0.05
6-methyl-3,5-hepdadien-2-one	0.04
α dihydro ionone	0.04
β dihydro ionone	0.03

Client



Source



Cistus (Cistus ladanifer)
ES-59311

Sample

Cistus (Cistus ladanifer)
Batch #:..... ES-59311
Type:..... Essential Oil
CAS Number:... 8016-26-0
Nature's Gift

Client



Website

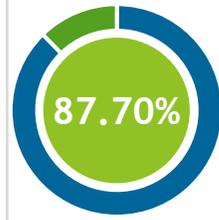
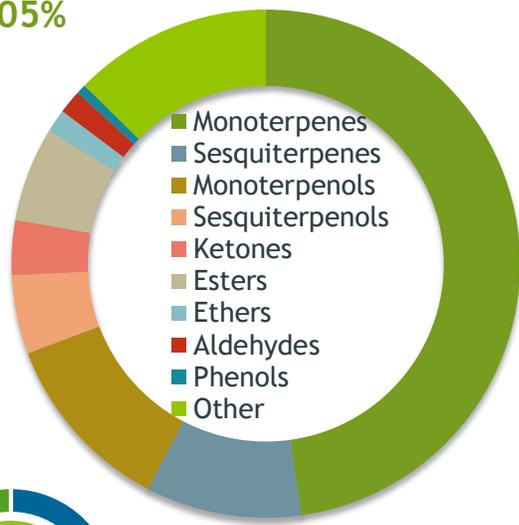


Primary

29.15% | alpha-Pinene
4.90% | Bornyl acetate
4.81% | Camphene

Monoterpenes

47.05%



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-5475



Essential Validation Services

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

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

Alan Christen

Monoterpenes	47.05%	47.05%
Sesquiterpenes	9.73%	9.73%
Monoterpenols	11.42%	11.42%
Sesquiterpenols	4.95%	4.95%
Ketones	3.42%	3.42%
Esters	5.93%	5.93%
Ethers	1.44%	1.44%
Aldehydes	1.48%	1.48%
Phenols	0.61%	0.61%
Other	12.44%	12.44%

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Client



Source

*Cistus (Cistus ladanifer)*

ES-59311

Total Percentage		87.70%		
Number	RT	Area %	Compound Name	Chemical Family
1	5.34	0.09%	2,6-Dimethyl-1,5-heptadiene	Alkadiene
2	6.48	0.06%	Styrene	Phenylpropanoid
3	7.03	0.09%	2-Methyl-2,5-divinyltetrahydrofuran	Furan
4	7.51	0.90%	Tricyclene	Monoterpene
5	7.69	0.16%	alpha-Thujene	Monoterpene
6	8.01	29.15%	alpha-Pinene	Monoterpene
7	8.54	4.81%	Camphene	Monoterpene
8	8.69	0.67%	Thuja-2,4(10)-diene	Monoterpene
9	9.02	0.12%	Benzaldehyde	Simple Phenolic
10	9.46	0.10%	Sabinene	Monoterpene
11	9.61	0.55%	beta-Pinene	Monoterpene
12	10.01	0.07%	6-Methyl-5-hepten-2-one	Aliphatic Ketone
13	10.15	0.15%	o-Cymene	Monoterpene
14	10.20	0.16%	trans-Dehydroxy linalool oxide	Monoterpene Ether
15	10.83	0.52%	alpha-Phellandrene	Monoterpene
16	11.30	0.71%	alpha-Terpinene	Monoterpene
17	11.65	3.65%	para-Cymene	Monoterpene
18	11.85	1.85%	Limonene	Monoterpene
19	11.93	0.55%	1,8-Cineole	Monoterpene Ether
20	12.22	0.09%	(Z)-beta-Ocimene	Monoterpene
21	13.14	1.41%	gamma-Terpinene	Monoterpene
22	13.40	0.31%	Acetophenone	Simple Phenolic
23	14.18	0.07%	10.70 Camphenilone	0.00
24	14.36	0.66%	Terpinolene	Monoterpene
25	14.57	1.67%	para-Cymenene	Monoterpene
26	14.67	0.11%	2-Nonanone	Monoterpene Ketone
27	15.10	0.51%	Linalool	Monoterpenol
28	15.23	0.22%	Hotrienol	Monoterpenol
29	15.31	0.07%	Nonanal	Aliphatic Aldehyde
30	15.51	0.15%	cis-Rose oxide	Monoterpene Ether
31	15.61	0.04%	6-Methyl-3,5-heptadien-2-one	Monoterpene Ketone
32	15.79	0.07%	beta-Thujone	Monoterpene Ketone
33	15.86	0.12%	Fenchol	Monoterpenol
34	16.21	0.58%	alpha-Campholene aldehyde	Monoterpene Aldehyde
35	16.67	0.09%	Nopinone	Monoterpene Ketone

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Number	RT	Area %	Compound Name	Chemical Family
36	16.852	4.42%	alpha-Pinocarveol	Monoterpene Ketone
37	17.06	0.46%	Camphor	Monoterpene Ketone
38	17.15	0.12%	13.19 Tagetone<E->	0.00
39	17.44	0.14%	Nerol oxide	Monoterpene Ether
40	17.70	0.50%	Pinocamphone	Monoterpene Ketone
41	17.79	0.47%	Pinocarvone	Monoterpene Ketone
42	17.96	0.16%	Isoborneol	Monoterpenol
43	18.29	1.84%	Borneol	Monoterpenol
44	18.41	1.08%	Isopinocamphone	Monoterpene Ketone
45	18.70	1.77%	Terpinen-4-ol	Monoterpenol
46	18.86	0.12%	para-Methylacetophenone	Simple Phenolic
47	19.04	0.24%	para-Cymen-8-ol	Monoterpenol
48	19.31	0.63%	Myrtenal	Monoterpene Aldehyde
49	19.40	1.62%	alpha-Terpineol	Monoterpenol
50	19.85	0.31%	Verbenone	Monoterpene Ketone
51	20.40	0.15%	Fenchyl acetate	Monoterpene Ester
52	20.49	0.20%	trans-Carveol	Monoterpenol
53	20.95	0.06%	cis-para-Mentha-1(7),8-dien-2-ol	Monoterpenol
54	21.04	0.33%	16.94 Ocimenone<Z->	0.00
55	21.45	0.05%	Cuminal	Monoterpene Aldehyde
56	21.54	0.17%	Carvone	Monoterpene Ketone
57	21.76	0.05%	Carvotanacetone	Monoterpene Ketone
58	21.95	0.23%	Linalyl acetate	Monoterpene Ester
59	22.46	0.04%	(E)-2-Decenal	Monoterpene Aldehyde
60	23.00	0.11%	Phellandral	Monoterpene Aldehyde
61	23.40	4.90%	Bornyl acetate	Monoterpene Ester
62	23.75	0.11%	19.98 Thujanol acetate<3->	0.00
63	23.88	0.27%	trans-Pinocarvyl acetate	Monoterpene Ether
64	24.19	0.22%	Carvacrol	Monoterpenol
65	25.09	0.41%	Myrtenyl acetate	Monoterpene Ester
66	25.22	0.11%	20.58 Verbanol acetate<iso->	0.00
67	25.57	0.12%	trans-Carvyl acetate	Monoterpene Ester
68	26.13	0.30%	delta-Elemene	Sesquiterpene
69	26.99	0.74%	Longicyclene	Sesquiterpene
70	27.31	0.79%	alpha-Copaene	Sesquiterpene
71	27.58	0.12%	Geranyl acetate	Monoterpene Ester

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Source



Cistus (Cistus ladanifer)
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72	27.93	0.07%	Sativene	Sesquiterpene
73	28.61	0.13%	alpha-Gurjunene	Sesquiterpene
74	28.87	0.04%	25.10 Ionone<dihydro-alpha->	0.00
75	29.09	0.44%	beta-Caryophyllene	Sesquiterpene
76	29.72	0.03%	26.08 Ionone<dihydro-beta->	0.00
77	29.87	0.04%	beta-Gurjunene	Sesquiterpene
78	29.95	0.48%	Aromadendrene	Sesquiterpene
79	30.03	0.09%	alpha-Guaiene	Sesquiterpene
80	30.33	0.07%	cis-Muuroala-3,5-diene	Sesquiterpene
81	30.56	0.09%	alpha-Humulene	Sesquiterpene
82	30.75	1.01%	allo-Aromadendrene	Sesquiterpene
83	31.30	0.19%	trans-Cadina-1(6),4-diene	Sesquiterpene
84	31.43	0.13%	gamma-Muurolene	Sesquiterpene
85	32.10	3.61%	Viridiflorene	Sesquiterpene
86	32.24	0.08%	alpha-Selinene	Sesquiterpene
87	32.41	0.17%	alpha-Muurolene	Sesquiterpene
88	32.78	0.05%	Eremophilene	Sesquiterpene
89	33.20	0.72%	delta-Cadinene	Sesquiterpene
90	33.29	0.20%	trans-Calamenene	Sesquiterpene
91	33.71	0.05%	trans-Cadina-1,4-diene	Sesquiterpene
92	34.02	0.20%	alpha-Calacorene	Sesquiterpene
93	34.96	0.05%	(E)-Nerolidol	Sesquiterpenol
94	35.12	0.26%	Palustrol	Sesquiterpenol
95	35.38	0.15%	Spathulenol	Sesquiterpenol
96	35.54	0.17%	Caryophyllene oxide	Sesquiterpene Ether
97	35.72	0.05%	Globulol	Sesquiterpenol
98	35.86	0.03%	Gleenol	Sesquiterpenol
99	36.08	2.99%	Viridiflorol	Sesquiterpenol
100	36.17	0.72%	32.70 Cubeban-11-ol	0.00
101	36.44	0.99%	Ledol	Sesquiterpenol
102	37.35	0.13%	1-epi-Cubenol	Sesquiterpenol
103	37.54	0.04%	Isospathulenol	Sesquiterpenol
104	37.90	0.05%	T-Cadinol	Sesquiterpenol
105	38.29	0.06%	beta-Eudesmol	Sesquiterpenol
106	38.81	0.15%	alpha-Muurolol	Sesquiterpenol
107	39.00	0.08%	Cadalene	Sesquiterpene
108	39.39	0.04%	Tetradecanol	Monoterpenol

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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