



Roman Chamomile
Anthemis nobilis syn. Chamaemulum nobile

Batch No. IT-59267
Italy

Monoterpenes	2.24%
α pinene	1.40
camphene	0.50
β pinene	0.20
limonene	0.08
para cymene	0.06

Monoterpenols	8.46%
trans-pinocarveol	7.57
myrtenol	0.59
camphene hydrate	0.24
trans-myrtanol	0.03
(Z) carveol	0.02
(Z) linalool oxide (5)(furanoid)	0.01

Aldehydes	0.16%
α campholene aldehyde	0.05
benzaldehyde	0.05
hexanal	0.02
nonanal	0.02
(E,E) 2,4-decadienal	0.01
pentadecanal	0.01

Ethers	0.11%
1,8-cineole	0.05
α pinene oxide	0.04
caryophyllene oxide	0.02

Esters	75.59%
isobutyl angelate	27.14
isoamyl tiglate	16.51
methallyl angelate	8.12
isoamyl angelate	5.82
isobutyl isobutyrate	3.81
2-methylbutyl isobutyrate	3.05
isobutyl methacrylate	2.00
isoamyl methacrylate	1.46
(E) 2-methyl-2-butenyl angelate	1.34
isobutyl 3-hydroxy-2-methylbutanoate	1.16
butyl angelate	1.09
isobutyl-2-methylbutyrate	0.95
isobutyl tiglate	0.74
2-methylbutyl 2-methylbutyrate	0.64
isoamyl isobutyrate	0.44
3-methylamyl angelate	0.29
prenyl acetate	0.24
(Z) 3-hexenyl angelate	0.15
2-methylbutyl acetate	0.15
prenyl isobutyrate	0.12
isoamyl acetate	0.08
(Z) 3-hexenyl acetate	0.06
propyl 2-methylbutyrate	0.06
ethyl angelate	0.05
isoamyl propionate	0.05
3-methylamyl isobutyrate	0.04
(Z) 3-hexenyl isovalerate	0.03

Ketones	4.9%
pinocarvone	2.17
pinocamphone	1.56
isopinocamphone	0.67
3-methyl cyclohexanone	0.34
verbenone	0.13
2 hexanone	0.03

Sesquiterpenes	0.16%
β selinene	0.11
longicyclene	0.03
(E,E) α Farnesene	0.02

Sesquiterpenols	0.1%
junenol	0.10

Other	2.41%
unknown	1.82
(Z) hex-3-en-1-ol	0.32
(E) 2-hexenol	0.09
1-hexanol	0.08
1-octen-3-ol	0.03
2-pentylfuran	0.02
prenol	0.02
limonene dioxide	0.02
1-octanol	0.01

Client



Source



Chamomile, Roman (*Anthemis nobilis* (syn *Chamaemulum nobile*))
IT-59267

Sample

Chamomile, Roman (*Anthemis nobilis* (syn
Batch #:..... IT-59267
Type:..... Essential Oil
CAS Number:.....
Nature's Gift

Client



Website

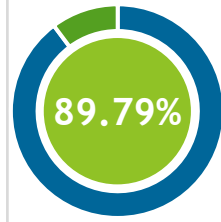
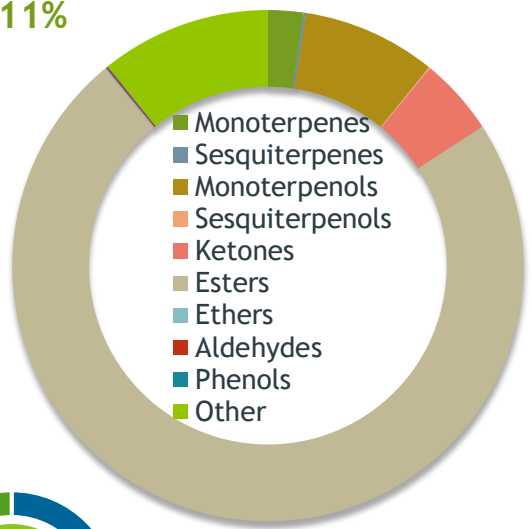


Primary

27.14% | Isobutyl angelate
16.51% | Isoamyl tiglate
8.12% | Methallyl angelate

Esters

73.11%



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 Chamomile, Roman (*Anthemis nobilis* (syn *Chamaemulum nobile*))

Internal Number: | EVS-5160



Essential Validation Services

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

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

Alan Christen

Monoterpenes	2.24%
Sesquiterpenes	0.16%
Monoterpenols	8.46%
Sesquiterpenols	0.10%
Ketones	4.90%
Esters	73.11%
Ethers	0.11%
Aldehydes	0.11%
Phenols	0.05%
Other	10.76%

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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

Client



Source



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Total Percentage		89.79%		
Number	RT	Area %	Compound Name	Chemical Family
1	3.64	0.03%	2-Hexanone	Aliphatic Ketone
2	3.73	0.02%	Prenol	Aliphatic Ester
3	4.20	0.02%	Hexanal	Aliphatic Aldehyde
4	5.66	0.32%	cis-Hex-3-en-1-ol	Aliphatic Alcohol
5	5.97	0.09%	(E)-2-Hexenol	Aliphatic Alcohol
6	6.08	0.08%	1-Hexanol	Aliphatic Alcohol
7	6.23	0.08%	Isoamyl acetate	Aliphatic Ester
8	6.28	0.15%	2-Methylbutyl acetate	Aliphatic Ester
9	6.85	0.05%	Ethyl angelate	Aliphatic Ester
10	7.49	3.81%	Isobutyl isobutyrate	Aliphatic Ester
11	7.73	0.24%	Prenyl acetate	Aliphatic Ester
12	8.10	1.40%	alpha-Pinene	Monoterpene
13	8.39	2.00%	Isobutyl methacrylate	Aliphatic Ester
14	8.63	0.06%	Propyl 2-methylbutyrate	Aliphatic Ester
15	8.71	0.50%	Camphene	Monoterpene
16	8.98	0.34%	3-Methyl cyclohexanone	Aliphatic Ketone
17	9.28	0.05%	Benzaldehyde	Simple Phenolic
18	9.68	0.05%	Isoamyl propionate	Aliphatic Ester
19	9.82	0.20%	beta-Pinene	Monoterpene
20	10.19	0.03%	1-Octen-3-ol	Aliphatic Alcohol
21	10.44	0.02%	2-Pentylfuran	Furan
22	10.97	0.95%	Isobutyl 2-methylbutyrate	Aliphatic Ester
23	11.11	0.06%	(Z)-3-Hexenyl acetate	Aliphatic Ester
24	11.41	0.44%	Isoamyl isobutyrate	Aliphatic Ester
25	11.57	3.05%	2-Methylbutyl isobutyrate	Aliphatic Ester
26	11.90	0.06%	para-Cymene	Monoterpene
27	12.08	0.08%	Limonene	Monoterpene
28	12.17	0.05%	1,8-Cineole	Monoterpene Ether
29	12.72	1.46%	Isoamyl methacrylate	Aliphatic Ester
30	13.31	27.14%	Isobutyl angelate	Aliphatic Ester
31	13.42	0.12%	Prenyl isobutyrate	Aliphatic Ester
32	13.86	8.12%	Methylallyl angelate	Aliphatic Ester
33	14.23	0.01%	1-Octanol	Aliphatic Alcohol
34	14.73	0.01%	cis-Linalool oxide (5) (furanoid)	Monoterpenol
35	14.87	1.09%	Butyl angelate	Aliphatic Ester

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Number	RT	Area %	Compound Name	Chemical Family
36	14.983	0.74%	Isobutyl tiglate	Aliphatic Ester
37	15.19	0.04%	alpha-Pinene oxide	Monoterpene Ether
38	15.49	0.64%	2-Methylbutyl 2-methylbutyrate	Aliphatic Ester
39	15.59	0.02%	Nonanal	Aliphatic Aldehyde
40	16.08	0.04%	3-Methylamyl isobutyrate	Aliphatic Ester
41	16.52	0.05%	alpha-Campholene aldehyde	Monoterpene Aldehyde
42	17.32	7.57%	trans-Pinocarveol	Monoterpenol
43	17.65	5.82%	Isoamyl angelate	Aliphatic Ester
44	17.93	16.51%	Isoamyl tiglate	Aliphatic Ester
45	18.04	0.24%	Camphene hydrate	Monoterpenol
46	18.17	1.56%	Pinocamphone	Monoterpene Ketone
47	18.22	2.17%	Pinocarvone	Monoterpene Ketone
48	18.75	0.67%	Isopinocamphone	Monoterpene Ketone
49	19.18	1.16%	Isobutyl 3-hydroxy-2-methylenebutanoate	
50	19.61	1.34%	(E)-2-Methyl-2-butenyl angelate	
51	19.85	0.59%	Myrtenol	Monoterpenol
52	20.21	0.13%	Verbenone	Monoterpene Ketone
53	20.94	0.02%	cis-Carveol	Monoterpenol
54	21.36	0.03%	cis-3-Hexenyl isovalerate	Aliphatic Ester
55	21.93	0.95%	UK Chamomile	
56	22.32	0.29%	3-Methylamyl angelate	Aliphatic Ester
57	22.84	0.03%	trans-Myrtenol	Monoterpenol
58	23.47	0.15%	(Z)-3-Hexenyl angelate	Aliphatic Ester
59	23.80	0.87%	UK Chamomile	
60	24.57	0.02%	Limonene Dioxide	
61	25.30	0.01%	(E,E)-2,4-Decadienal	Sesquiterpene Aldehyde
62	27.30	0.03%	Longicyclene	Sesquiterpene
63	32.30	0.11%	beta-Selinene	Sesquiterpene
64	33.11	0.02%	(E,E)-alpha-Farnesene	Sesquiterpene
65	35.94	0.02%	Caryophyllene oxide	Sesquiterpene Ether
66	37.09	0.10%	Junenol	Sesquiterpenol
67	41.11	0.01%	Pentadecanal	Sesquiterpene Aldehyde

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