



Roman Chamomile Anthemis nobilis

Batch No. IT-58906
Italy

Monoterpenes	2.82%
α pinene	1.19
terpinolene	0.65
camphene	0.44
α thujene	0.22
β pinene	0.14
limonene	0.12
para cymene	0.06

Monoterpenols	5.16%
trans-pinocarveol	4.73
α terpineol	0.25
borneol	0.18

Ketones	5.23%
pinocarvone	3.98
cis-pinocamphone	0.98
artemisia ketone	0.26
verbenone	0.01

Esters	78.73%
isobutyl angelate	29.70
isoamyl tiglate	18.67
methallyl angelate	7.54
isoamyl angelate	5.98
isobutyl isobutyrate	4.62
isoamyl isobutyrate	3.88
isobutyl methacrylate	1.90
isobutyl-2-methylbutyrate	1.48
2-methylbutyl methacrylate	1.34
butyl angelate	0.99
prenyl angelate	0.65
2-methylbutyl 2-methylbutyrate	0.62
isobutyl butyrate	0.37
3-methylamyl angelate	0.25
isoamyl acetate	0.15
isopentyl 2-methylbutyrate	0.14
isoamyl isovalerate	0.14
prenyl acetate	0.13
methallyl tiglate	0.06
methyl methacrylate	0.06
propyl isobutyrate	0.04
hexyl angelate	0.01
isoamyl propionate	0.01

Sesquiterpenes	1.11%
ar-curcumene	0.34
δ cadinene	0.32
germacrene D	0.19
β selinene	0.18
β caryophyllene	0.06
α copaene	0.02

Sesquiterpenols	
γ eudesmol	0.17

Aldehydes	1%
myrtenal	1

Ethers	0.16%
dendrolasin	0.12
1,8-cineole	0.04

Other	0.01%
3-methylpentanol	0.01

Raw Material: Roman Chamomile
INCI Name: Anthemis nobilis
Production Method: Steam Dist., flowers
Date of Analysis: 3/29/2019

Client



Source



Chamomile, Roman (*Anthemis nobilis*)
IT-58906

Sample

Chamomile, Roman (*Anthemis nobilis*)

Batch #:..... IT-58906

Type:..... Essential Oil

CAS Number:... 8015-92-7

Nature's Gift

Client



Website



Primary

29.70%

Isobutyl angelate

18.67%

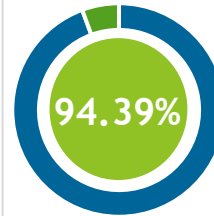
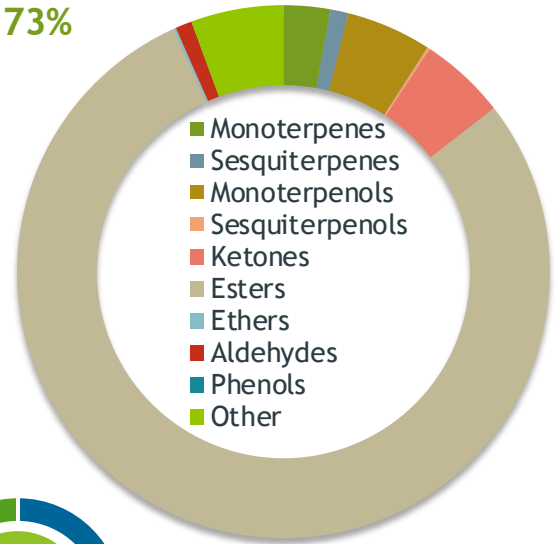
Isoamyl tiglate

7.54%

Methallyl angelate

Esters

78.73%



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*)

Internal Number: | EVS-2801



Essential Validation Services

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

317.361.5044 | essentialvalidationservices.com

adam@essentialvalidationservices.com

Monoterpenes	2.82%
Sesquiterpenes	1.11%
Monoterpenols	5.16%
Sesquiterpenols	0.17%
Ketones	5.23%
Esters	78.73%
Ethers	0.16%
Aldehydes	1.00%
Phenols	0.00%
Other	5.62%

Client



Source



Chamomile, Roman (*Anthemis nobilis*)
IT-58906

Total Percentage		94.39%			
Number	RT	Area %	Compound Name	RI	Chemical Family
1	9.57	0.01%	3-Methylpentanol	833.00	Aliphatic Alcohol
2	9.79	0.04%	Propyl isobutyrate	847.00	Aliphatic Ester
3	10.59	0.06%	Methyl tiglate	863.50	Aliphatic Ester
4	10.69	0.15%	Isoamyl acetate	869.00	Aliphatic Ester
5	12.09	4.62%	Isobutyl isobutyrate	908.00	Aliphatic Ester
6	12.45	0.13%	Prenyl acetate	914.00	Aliphatic Ester
7	12.78	0.22%	alpha-Thujene	927.80	Monoterpene
8	12.89	1.19%	alpha-Pinene	936.10	Monoterpene
9	13.12	1.90%	Isobutyl methacrylate	939.00	Aliphatic Ester
10	13.51	0.44%	Camphene	950.30	Monoterpene
11	13.80	0.37%	Isobutyl butyrate	954.00	Aliphatic Ester
12	14.39	0.01%	Isoamyl propionate	968.00	Aliphatic Ester
13	14.49	0.06%	Methyl methacrylate	968.50	Aliphatic Ester
14	14.70	0.14%	beta-Pinene	974.00	Monoterpene
15	15.41	1.48%	Isobutyl 2-methylbutyrate	991.50	Aliphatic Ester
16	16.33	3.88%	Isoamyl isobutyrate	1007.00	Aliphatic Ester
17	16.78	0.06%	para-Cymene	1024.30	Monoterpene
18	16.87	0.12%	Limonene	1029.50	Monoterpene
19	17.00	0.04%	1,8-Cineole	1031.80	Monoterpene Ether
20	17.42	1.34%	2-Methylbutyl methacrylate	1047.00	Aliphatic Ester
21	17.88	29.70%	Isobutyl angelate	1053.75	Aliphatic Ester
22	17.96	0.26%	Artemisia ketone	1057.00	Monoterpene Ketone
23	18.44	7.54%	Methyl angelate	1065.50	Aliphatic Ester
24	19.37	0.99%	Butyl angelate	1092.00	Aliphatic Ester
25	19.46	0.65%	Terpinolene	1092.10	Monoterpene
26	19.78	0.14%	Isopentyl 2-methylbutyrate	1097.00	Aliphatic Ester
27	19.93	0.62%	2-Methylbutyl 2-methylbutyrate	1102.10	Aliphatic Ester
28	20.16	0.14%	Isoamyl isovalerate	1103.10	Aliphatic Ester
29	21.42	4.73%	trans-Pinocarveol	1143.75	Monoterpenol
30	21.71	5.98%	Isoamyl angelate	1154.75	Aliphatic Ester
31	21.91	18.67%	Isoamyl tiglate	1152.50	Aliphatic Ester
32	22.33	3.98%	Pinocarvone	1161.43	Monoterpene Ketone
33	22.48	0.18%	Borneol	1168.71	Monoterpenol
34	22.79	0.98%	cis-Pinocamphone	1172.00	Monoterpene Ketone
35	23.38	0.65%	Prenyl angelate	1189.00	Aliphatic Ester

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

