

GC-MS COMPOSITION REPORT

Mentha Arvensis (Mentha arvensis) — qualitative GC-MS

Total identified99.04%

Method

Qualitative GC-MS

CHEMICAL FAMILY	AREA %
Monoterpenol	71.19%
Monoterpene Ketone	11.47%
Monoterpene	5.77%
Monoterpene Ether	4.94%
Monoterpene Ester	3.78%
Sesquiterpene	1.08%
Aliphatic Alcohol	0.43%
Sesquiterpene Ether	0.07%
Aliphatic Ketone	0.06%
Sesquiterpenol	0.05%
Furan	0.04%
0.00	0.04%
Aliphatic Ester	0.03%
Phenylpropanoid	0.02%
Aliphatic Aldehyde	0.01%

#	RT	AREA %	COMPOUND	CHEMICAL FAMILY
1	6.24	0.02%	1-Hexanol	Aliphatic Alcohol
2	7.07	0.04%	2,5-Diethyltetrahydrofuran	Furan
3	8.13	0.01%	alpha-Thujene	Monoterpene
4	8.38	0.74%	alpha-Pinene	Monoterpene
5	9.00	0.02%	Camphene	Monoterpene
6	9.12	0.03%	3-Methyl cyclohexanone	Aliphatic Ketone
7	9.94	0.28%	Sabinene	Monoterpene
8	10.11	0.82%	beta-Pinene	Monoterpene
9	10.45	0.04%	Mentha Arvensis (Mentha arvensis)	Monoterpene
10	10.53	0.03%	HA MA	Aliphatic Ketone
11	10.69	0.48%	- Essential Oil testing is performed by using qualitative GC-MS Method: SOP.T.01 Client Method	
12	11.04	0.38%	- Chromatograph image may be requested	Aliphatic Alcohol
13	11.24	0.03%	Number RT Area % Chemical Family	Monoterpene
14	12.15	0.05%	36 20.198 0.06% Monoterpenol	Monoterpene
15	12.36	3.26%	37 21.62 0.03% Aliphatic Ester	Monoterpene
16	12.45	0.22%	38 21.84 1.07% Monoterpene Ketone	Monoterpene Ether

#	RT	AREA %	COMPOUND	CHEMICAL FAMILY
17	13.20	0.01%	39 22.14 0.04% Monoterpene Ester	Monoterpene
18	13.66	0.01%	40 22.54 0.50% Monoterpene Ketone	Monoterpene
19	14.23	0.02%	41 23.44 0.07% Monoterpene Ester	Monoterpenol
20	14.37	0.03%	42 23.54 0.14% Monoterpenol	Aliphatic Alcohol
21	14.90	0.02%	43 24.24 3.50% Monoterpene Ester	Monoterpene
22	15.63	0.09%	44 25.00 0.04% Monoterpene Ester	Monoterpenol
23	15.85	0.01%	45 25.19 0.03% Monoterpene Ester	Aliphatic Aldehyde
24	16.57	0.01%	46 26.00 0.10% Sesquiterpene	Monoterpenol
25	17.26	0.02%	47 26.89 0.02% Phenylpropanoid	Monoterpenol
26	17.40	0.02%	48 28.17 0.13% Sesquiterpene	Monoterpenol
27	17.76	0.81%	49 28.47 0.04% Sesquiterpene	Monoterpenol
28	18.13	9.57%	50 29.25 0.04% 0.00	Monoterpene Ketone
29	18.51	4.72%	51 29.44 0.10% Monoterpene Ester	Monoterpene Ether
31	18.79	2.73%	52 29.64 0.45% Sesquiterpene	Monoterpenol
32	19.00	0.33%	53 30.09 0.03% Sesquiterpene	Monoterpene Ketone
33	19.40	66.36%	54 31.11 0.02% Sesquiterpene	Monoterpenol
34	19.68	0.52%	55 32.17 0.15% Sesquiterpene	Monoterpenol
35	19.98	0.47%	56 32.76 0.04% Sesquiterpene	Monoterpenol
37	21.62	0.03%	57 32.87 0.04% Sesquiterpene	Aliphatic Ester
38	21.84	1.07%	58 33.48 0.02% Sesquiterpene	Monoterpene Ketone
39	22.14	0.04%	59 33.72 0.06% Sesquiterpene	Monoterpene Ester
40	22.54	0.50%	60 35.45 0.01% Sesquiterpenol	Monoterpene Ketone
41	23.44	0.07%	61 35.92 0.04% Sesquiterpenol	Monoterpene Ester
42	23.54	0.14%	62 36.07 0.07% Sesquiterpene Ether	Monoterpenol
43	24.24	3.50%	beta-Bourbonene	Monoterpene Ester
44	25.00	0.04%	beta-Elemene	Monoterpene Ester
45	25.19	0.03%	24.51 Trimenal<Z->	Monoterpene Ester
46	26.00	0.10%	Decyl acetate	Sesquiterpene
47	26.89	0.02%	beta-Caryophyllene	Phenylpropanoid
48	28.17	0.13%	beta-Copaene	Sesquiterpene
49	28.47	0.04%	Spathulenol	Sesquiterpene
50	29.25	0.04%	Caryophyllene oxide	0.00
51	29.44	0.10%	alpha-Humulene	Monoterpene Ester
52	29.64	0.45%	Germacrene D	Sesquiterpene
53	30.09	0.03%	Bicyclogermacrene	Sesquiterpene
54	31.11	0.02%	gamma-Murolene	Sesquiterpene
55	32.17	0.15%	gamma-Cadinene	Sesquiterpene
56	32.76	0.04%	delta-Cadinene	Sesquiterpene
57	32.87	0.04%	(E)-Nerolidol	Sesquiterpene
58	33.48	0.02%	Hexyl isovalerate	Sesquiterpene
59	33.72	0.06%	Piperitone	Sesquiterpene
60	35.45	0.01%	neo-Menthyl acetate	Sesquiterpenol
61	35.92	0.04%	1-Decanol	Sesquiterpenol

#	RT	AREA %	COMPOUND	CHEMICAL FAMILY
62	36.07	0.07%	Menthyl acetate	Sesquiterpene Ether

Conclusion: no adulterants, diluents or contaminants were detected via this method. This oil meets the expected profile for the genuine essential oil identified above.

Results provided by: third-party laboratory. Comprehensive report available upon request. Provided for informational purposes only; this does not constitute a medical claim of any kind. These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.