

Supplementary Table S1. Chemical composition of *M. communis* essential oil.

Compounds	Rt ^a	RI ^b	Peak area %
α -Thujene	5.28	924	0.16
α -Pinene	5.48	931	7.17
β -Pinene	6.69	977	0.13
δ -3-Carene	7.61	1009	0.15
<i>o</i> -Cymene	8.13	1024	1.05
Limonene	8.29	1028	8.96
1,8-Cineole	8.41	1032	10.65
<i>cis</i> -Linalool oxide	9.75	1070	0.27
<i>trans</i> -linalool oxide	10.34	1087	0.25
Linalool	10.87	1103	19.77
Terpinen-4-ol	14.13	1180	0.20
<i>p</i> -Cymen-8-ol	14.42	1187	0.09
<i>cis</i> -3-Hexenyl butyrate	14.48	1188	0.12
β -Fenchyl alcohol	14.75	1195	3.1
Estragole	14.85	1197	0.34
(<i>L</i>)-carvone	16.76	1242	0.09
Citral	17.78	1266	0.1
Myrtenyl acetate	20.12	1321	33.67
Neryl acetate	21.62	1356	0.18
Methyl eugenol	23.37	1398	0.96
<i>trans</i> -Caryophyllene	24.06	1415	0.22
α -Humulene	25.52	1451	0.42
4,6-diethyl-2-methoxypyrimidine	27.91	1510	1.35
Phenol, 2-(1,1-dimethylethyl)	28.56	1527	0.18
Caryophyllene oxide	30.48	1576	0.32
Humulene 1,2-epoxide	31.56	1604	0.41
Monoterpene hydrocarbons			17.62
Oxygenated monoterpenes			35.16
Sesquiterpene hydrocarbons			0.64
Oxygenated sesquiterpenes			0.73
Others			36.15
Total			90.3

a: Retention time on DB-5 capillary column in minutes.

b: Retention index

Supplementary Table S2. Chemical composition of *A. herba-alba* essential oil.

Compounds	Rt ^a	RI ^b	Peak area %
α -Pinene	5.48	931	0.10
β -Myrcene	6.96	987	0.09
<i>p</i> -cymene	8.13	1023	1.31
(<i>D</i>)-Limonene	8.28	1028	0.20
β -Thujene	8.35	1029	0.04
Lavender lactone	8.51	1034	0.12
γ -Terpinene	9.29	1056	0.14
3-Carene	10.84	1099	0.11
<i>cis</i> -4-Thujanol	12.55	1141	0.14
Fenchone	13.39	1162	0.43
Terpinen-4-ol	14.12	1179	0.68
krypton	14.37	1185	0.23
(<i>A</i>)-Terpineol	14.75	1195	1.77
Piperitone	17.26	1254	85.68
Copaene	22.28	1372	0.15
(-)-Spathulenol	30.32	1572	0.15
(+)-Spathulenol	30.32	1572	0.12
Davanone	30.44	1575	3.12
Monoterpene hydrocarbons			1.99
Oxygenated monoterpenes			88.7
Sesquiterpene hydrocarbons			0.15
Oxygenated sesquiterpenes			3.38
Others			0.35
Total			94.58

a: Retention time on DB-5 capillary column in minutes.

b: Retention index

Supplementary Table S3. Chemical composition of *O. majorana* essential oil.

Compounds	Rt ^a	RI ^b	Peak area %
(-)-Terpinene-4-ol	14.12	1180	29.11
(<i>Z</i>)-4-Thujanol	10.93	1101	24.57
<i>p</i> -cymene	8.14	1023	12.64
α -Terpineol	14.74	1195	9.05
(<i>E</i>)- β -Terpineol	9.75	1069	5.45
(<i>Z</i>)-2-Menthenol	11.84	1124	2.16
β -Phellandrene	6.52	971	2.14
(<i>Z</i>)-Sabinene hydrate acetate	17.19	1252	1.71
(<i>E</i>)-Sabinene hydrate acetate	17	1248	1.48
(<i>E</i>)- <i>p</i> -Menth-2-en-1-ol	12.56	1141	1.27

Caryophyllene oxide	30.48	1576	1.08
1,8-Cineole	8.39	1031	1.05
Limonene	8.28	1028	0.98
Spathulenol	30.32	1572	0.82
p-Cymene-8-ol	14.41	1186	0.59
β -Myrcene	6.95	987	0.4
Caryophyllene	24.05	1415	0.4
α -Pinene	5.48	932	0.35
β -Pinene	6.68	977	0.19
Sabinene	5.28	924	0.17
Verbenone	15.11	1203	0.11
Monoterpene hydrocarbons			16.87
Oxygenated monoterpenes			76.55
Sesquiterpene hydrocarbons			0.4
Oxygenated sesquiterpenes			1.9
Others			95.72

a: Retention time on DB-5 capillary column in minutes.

b: Retention index

Supplementary Table S4. Chemical composition of *T. serpyllum* essential oil.

Compounds	Rt^a	RI^b	Peak area %
<i>p</i> -Cymene	8.14	1023	36.16
γ -Terpinene	9.3	1056	18.31
Thymol	18.48	1292	17.29
Linalool	10.85	1099	4.51
Caryophyllene	24.05	1415	3.13
Thymol methyl ether	16.15	1237	3.02
α -Terpinene	7.87	1016	2.61
Limonene	8.28	1028	2.2
β -myrcene	6.95	987	1.88
Sabinene	5.28	924	1.75
α -Pinene	5.48	932	1.55
Camphene	5.92	948	0.66
β -Pinene	6.68	977	0.62
Borneol	13.78	1171	0.59
(-)-Terpinene-4-ol	14.12	1180	0.54
(-)-Camphor	12.74	1146	0.39
β -Thujene	8.35	1029	0.37
α -Phellandrene	7.53	1007	0.34
β -Farnesene	30.48	1576	0.28
Terpinolene	10.29	1084	0.25
<i>p</i> -Cymenene	10.48	1089	0.22
1,8-cineole	8.39	1031	0.18
α -Terpineol	14.74	1195	0.15
(+)-4-carene	9.75	1069	0.13
3-Octanone	6.82	982	0.11
(+)-3-Carene	7.6	1009	0.1
Monoterpene hydrocarbons			65.4
Oxygenated monoterpenes			28.87
Sesquiterpene hydrocarbons			3.533
Oxygenated sesquiterpenes			0
Others			0.09
Total			97.89

a: Retention time on DB-5 capillary column in minutes.

b: Retention index

Supplementary Table S5. Chemical composition of *O. compactum* essential oil.

Compounds	Rt ^a	RI ^b	Peak area %
Carvacrol	18.88	1301	47.85
γ -Terpinene	9.3	1056	17.25
Thymol	18.48	1292	15.75
<i>p</i> -Cymene	8.14	1023	8.44
α -Terpinene	7.87	1016	2.19
Caryophyllene	24.05	1415	1.44
β -Myrcene	6.95	987	1.42
Linalool	10.85	1099	1.36
Sabinene	5.28	924	1.06
α -Pinene	5.48	932	0.61
(-)-Terpinene-4-ol	14.12	1180	0.43
Limonene	8.28	1028	0.25
α -Phellandrene	7.53	1007	0.24
β -Pinene	6.68	977	0.21
β -Thujene	8.35	1029	0.21
α -Terpineol	14.74	1195	0.16
Borneol	13.78	1171	0.15
2-Carene	10.28	1084	0.12
Camphene	5.92	948	0.09
3-Octanone	6.82	982	0.09
<i>p</i> -Cymene	10.48	1089	0.08
Myrtenol	14.84	1197	0.08
(+)-3-Carene	7.6	1009	0.07
<i>cis</i> - β -Ocimene	8.84	1043	0.06
Monoterpene hydrocarbons			65.87
Oxygenated monoterpenes			32.01
Sesquiterpene hydrocarbons			1.44
Oxygenated sesquiterpenes			0
Others			0.09
Total			99.65

a: Retention time on DB-5 capillary column in minutes.

b: Retention index

Supplementary Table S6. Chemical composition of *M. spicata* essential oil.

Compounds	Rt^a	RI^b	Peak area %
Carvone	21.69	1358	26.00
1,8-cineole	8.41	1031	15.20
β -Myrcene	6.96	987	12.50
Limonene	8.29	1028	10.29
(<i>D</i>)-Germacrene	26.56	1476	6.86
Caryophyllene	24.06	1415	6.41
β -Pinene	6.69	977	3.03
1-Butanone	23.11	1392	2.08
α -Pinene	5.49	932	1.72
β -Phellandrene	6.53	971	1.58
(<i>E</i>)- β -Famesene	25.51	1451	1.18
γ -Elemene	27.13	1490	0.77
(<i>E</i>)- β -ocimene	8.47	1033	0.75
Pentanoic acid	16.42	1234	0.47
(-)- β -Bourbonene	22.59	1380	0.43
γ -Terpinene	9.3	1056	0.37
Limonene	14.74	1194	0.35
Resorcinol	12.19	1132	0.34
β -Elemene	22.86	1386	0.34
Bicyclo[4.4.0]dec-1-ene, 2-isopropyl-5-methyl-9-methylene-	25.79	1458	0.32
β -Methylallylbenzene	10.49	1089	0.30
α -Terpinolene	10.29	1084	0.28
2-Methylbutyl valerate	11.16	1107	0.26
(<i>E,Z</i>)-2,4-Hexadiene	20.11	1321	0.26
(<i>D</i>)-cadinene	28.06	1514	0.25
(+/-)-Pulegone	16.5	1236	0.24
5-Isopropenyl-2-methylcyclopent-1-enecarboxaldehyde	20.71	1335	0.24
Citronellol	16.07	1226	0.23
Isovaleric acid	11.09	1105	0.23

Terpinene-4-ol	14.12	1179	0.23
(+)-4-Carene	7.87	1016	0.23
<i>cis</i> -Sabinen hydrate	9.75	1069	0.22
<i>cis</i> -(<i>Z</i>)- α -Bisabolene epoxide	30.48	1576	0.20
α -Terpineol	13.71	1169	0.19
γ -Selinene	32.03	1617	0.19
Linalool	10.85	1099	0.18
3-Octanol	7.19	996	0.17
Cymen-8-ol	14.41	1186	0.17
<i>n</i> -Amyl isovalerate	10.95	1102	0.16
α -Muurolene	26.35	1471	0.15
α -ocimene	8.85	1043	0.15
β -Citronellol	18.01	1271	0.15
<i>cis</i> -Jasmone	22.99	1389	0.15
Copaene	22.27	1372	0.14
Butanoic Acid	16.2	1229	0.14
Spatulenol	30.31	1572	0.13
Isopiperitenone	17.8	1266	0.13
<i>l</i> -Calamenene	28.12	1515	0.12
1.5.5-Trimethyl-6-methylene-cyclohexene	20.43	1328	0.11
Monoterpene hydrocarbons			31.53
Oxygenated monoterpenes			43.68
Sesquiterpene hydrocarbons			10.22
Oxygenated sesquiterpenes			0.33
Others			10.57
Total			96.34

a: Retention time on DB-5 capillary column in minutes.

b: Retention index