

Table S1. Chemical composition of EO from *O. vulgare*.

No.	t_R^1	Component	Content [%] ²
1	5.42	m-Cymene	0.03±0.01
2	6.61	3,5,7-Octatrien-2-ol, 2,6-dimethyl-, (3E,5E)-	0.26±0.03
3	6.98	Bicyclo[3.1.0]hexane-6-methanol, 2-hydroxy-1,4,4-trimethyl-1,3-	0.08±0.05
4	7.61	bis-(1,1-dimethylethyl)-benzene	0.33±0.00
5	8.20	Thymol	12.00±0.27
6	8.36	Carvacrol	86.23±0.77
7	15.87	Octadecane, 3-ethyl-5-(2-ethylbutyl)-	0.03±0.02
8	16.43	1,1,3,3,5,5,7,7,9,9,11,11,13,13,15,15-hexadecamethyloctasiloxane	0.26±0.03
9	28.87	2,2'-Methylenebis(6-tert-butyl-4-methylphenol)	0.03±0.01
Total identified [%]			99.25

¹ Retention time. ² Relative percentage obtained from peak area. The data are reported as the means ± standard deviation of three samples.

Table S2. Chemical composition of EO from *T. mongolicus*.

No.	t_R^1	Component	Content [%] ²
1	5.49	β-pinene	1.79±0.05
2	5.87	β-myrcene	0.28±0.01
3	6.03	n-Decane	0.06±0.00
4	6.42	3-Carene	0.09±0.00
5	6.59	Terpinolene	0.10±0.07
6	6.84	O-Cymene	56.63±0.22
7	7.73	γ-Terpinene	21.96±0.59
8	10.24	Cyclohexyldimethoxymethylsilane	0.20±0.00
9	11.06	Tetradecane	0.18±0.05
10	11.28	2,6-Dimethylundecene	0.05±0.01
11	12.58	Dodecane, 2,6,11-trimethyl-	0.17±0.07
12	13.07	Thymol	12.05±0.82
13	17.04	Butylated Hydroxytoluene	0.05±0.01
14	17.21	2,4-Di-tert-butylphenol	0.07±0.00
15	31.08	α-Naginatene	0.09±0.09
16	32.22	Erythrodil 3-acetate	1.17±0.97
17	35.98	2,2'-Methylenebis(6-tert-butyl-4-methylphenol)	0.38±0.15
18	36.75	Betulin	0.08±0.02
19	38.39	3-Acetylpupeol	2.10±0.78
Total identified [%]			97.49

¹ Retention time. ² Relative percentage obtained from peak area. The data are reported as the means ± standard deviation of three samples.

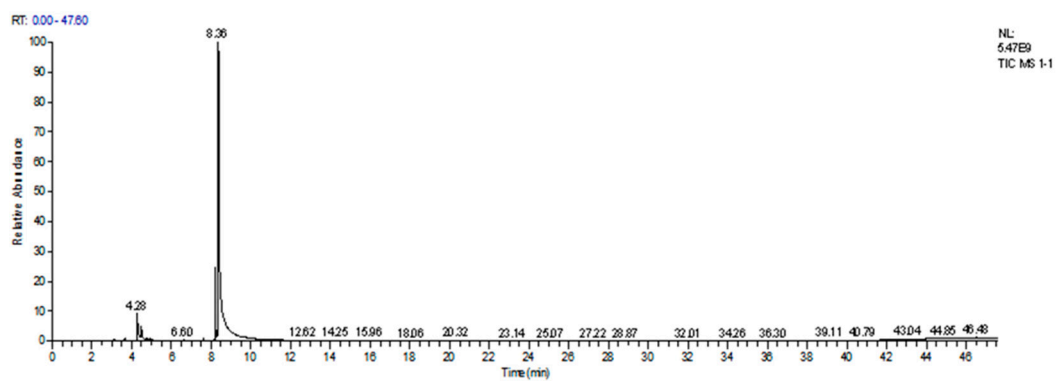


Figure. S1. GC-MS chromatogram of *Origanum vulgare* essential oil.

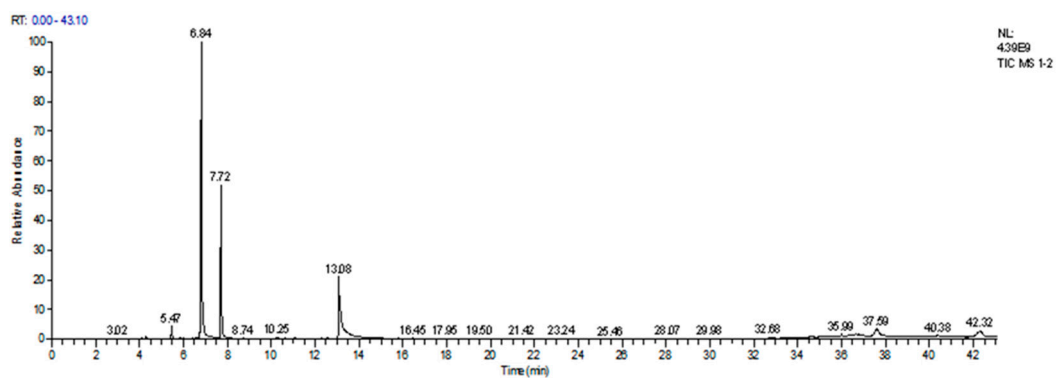


Figure. S2. GC-MS chromatogram of *Thymus mongolicus* essential oil.