

Table 1: Chemical components of the essential oils in leaves of *H. triquetrifolium* extracted and detected by ITEX-GC/MS and HD/GS-MS

No	Name of Compound	ITEX: Conc. %	HD: Conc. %
1	1-Penten-3-ol	2.03	-
2	2,2,4-trimethyl-Pentane	2.35	-
3	2-ethyl-Furan	1.03	-
4	3-methyl-2-Pentanone	0.37	-
5	3-methyl-2-Butenal	0.98	-
6	(1,1-dimethylethyl)-Cyclohexane	3.29	-
7	(E)-2-Hexenal	12.63	-
8	2,3,3-trimethyl-Octane	11.36	0.49
9	p-Xylene	1.08	-
10	2,2,3,3-tetramethyl-Hexane	6.42	-
11	Alpha-Pinene	5.75	1.34
12	3-methyl-Nonane	0.41	-
13	3,5-dimethyl-Octane	0.48	-
14	1-ethyl-2,4-dimethyl-Benzene	1.04	-
15	β -Terpinyl acetate	3.01	-
16	Benzeneacetaldehyde	1.08	-
17	7-methyl-Pentadecane	9.79	-
18	cis-Linalool Oxide	0.82	-
19	Undecane	6.15	-
20	Nonanal	0.85	-
21	2,3-dimethyl-Undecane	0.52	-
22	Hexadecane	1.15	-
23	3-methyl-Undecane	0.02	-
24	Dodecane	0.29	-
25	Ylangene	0.84	-
26	Copaene	1.94	-
27	1-Methyl-4-methylene-2-(2-methyl-1-propen-1-yl)-1-vinylcycloheptane	4.5	-
28	2,6,10,10-Tetramethylbicyclo[7.2.0]undeca-2,6-diene	0.9	-
29	Gamma-Muurolene	3.85	3.02
30	Delta Cadinene	1.62	1.82
31	Calamenene	1.43	2.29
32	2,5-Diphenyl-1,4-benzoquinone	3.05	1.35
33	Cumene	-	7.5
34	Benzaldehyde	-	0.34
35	3-methyl-Nonane	-	6.85
36	3,7-dimethyl-Undecane	-	0.37
38	Alpha-Caryophyllene	-	2.37
39	Alpha-Muurolene	-	0.97
40	Alpha-Calacorene	-	0.63
41	Cubenol	-	23.64
42	Beta-Humulene	-	6.7
43	Cadalene	-	5.85
	Total	91.03	65.53

Table 2: Constituents of the essential oils in stem of *H. triquetrifolium* Turra detected by ITEX-GC/MS and HD/GC-MS

No	Name of compounds	ITEX: Conc. %	HD: Conc. %
1	2,2-dimethyl-hexane	4.08	-
2	(1,1-dimethylethyl)-cyclohexane	2.72	-
3	2,3,3-trimethyl-octane	10.74	-
4	1,3-dimethyl-benzene	5.62	-
5	2,4-dimethyl-hexane	11.52	-
6	Alpha-pinene	20.47	3.01
7	Camphene	9.79	0.57
8	3-methyl-nonane	2.12	7.87
9	2,4,6-trimethyl-octane	0.63	-
10	1-methyl-2-(1-methylethyl)-benzene	4.14	-
11	D-limonene	3.28	-
12	2,3,3-trimethyl-octane	3.53	-
13	Undecane	9.28	-
14	Nonanal	0.82	-
15	1,3,3-Trimethylbicyclo[2.2.1] heptan-2-ol	1.73	-
16	Decamethyl-cyclopentasiloxane	0.61	-
17	2-methyl-5-(1-methylethenyl)-2-cyclohexen-1-ol	2.72	-
18	1-iodo-decane	0.46	-
19	Isoborneol	2.70	-
20	Verbenone	1.65	-
21	3,4-dimethyl-benzaldehyde	1.39	-
22	Cumene	-	16.56
23	Alpha-caryophyllene	-	0.75
24	Gamma-murolene	-	0.26
25	Alpha-murolene	-	0.33
26	Germacrene D	-	2.16
27	Delta-cadinene	-	1.54
28	Calamenene	-	1.80
29	Alpha-calacorene	-	0.95
30	Cubenol	-	26.72
31	Humulene	-	7.23
32	Cadalene	-	6.67
33	6,10,14-trimethyl-2-pentadecanone	-	1.07
	Total	100	77.49

Table 3: Chemical composition of the essential oils in flower of *H. triquetrifolium* Turra extracted and detected by ITEX/GC-MS and HD/GC-MS

No	Name of compounds	ITEX: Conc. %	HD: Conc. %
1	3-methyl-2-butenal	0.23	-
2	4-hydroxy-3-methyl-butanal	0.43	-
3	2,3,3-trimethyl-octane	17.98	-
4	2,4,6-trimethyl-octane	8.61	0.37
5	Alpha-pinene	14.44	18.39
6	Isolimonene	0.14	-
7	3-methyl-nonane	27.76	-
8	Beta-pinene	0.46	0.54
9	1-methyl-2-(1 methylethyl)-benzene	0.86	-
10	D-limonene	1.18	-
11	7-methyl-pentadecane	15.42	6.26
12	Alpha-methyl-alpha-[4-methyl-3-pentenyl] oxirane methanol	0.21	-
13	Dodecane	6.99	-
14	2,2,3-trimethyl-3-cyclopentene-1-acetaldehyde	0.24	-
15	2-methyl-5-(1-methylethenyl)-2-cyclohexen-1-ol	0.11	-
16	3-methyl-undecane	0.28	2.31
17	2,3,5-trimethyl-decane	0.11	-
18	Nonanol	0.16	-
19	2,3-dimethyl-undecane	0.17	-
20	Ylangene	0.11	0.94
21	Copaene	0.31	-
22	Caryophyllene	0.35	1.65
23	Gamma-murolene	0.74	5.95
24	Germacrene D	0.23	4.17
25	Delta.-cadinene	0.10	-
26	Cumene	-	4.04
27	Beta-pinene	-	0.54
28	Cymene	-	0.47
29	1-octanol	-	0.86
30	8-methyl-1-decene	-	1.01
31	Calamenene	-	2.06
32	Alpha-calacorene	-	1.08
33	Alloaromadendrene oxide	-	4.11
34	Caryophyllene oxide	-	10.84
35	Caryophyllene oxide	-	0.50
36	6,6-Dimethyl-1,2,3b,6,7,8-hexahydrocyclopenta[1,3]cyclopropa[1,2][7]annulen-3(3aH)-one	-	0.87
37	Trans-longipinocarveol	-	1.12
38	6,10,14-trimethyl-2-pentadecanone	-	0.65
39	2,5-diphenyl-1,4-benzoquinone	-	1.12
	Total	97.62	69.85