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CERTIFICATE OF ANALYSIS

GC-MS DETERMINATION OF *Коприва корен етерично масло (Urtica dioica)*

The composition of *Urtica dioica* CO_2 extract (5.0 mg in 500.0 µL n-Hexane) was carried out on a 7890A gas chromatograph (Agilent Technologies Inc., Santa Clara, CA) interfaced with a 5975C mass selective detector (MSD). The individual compounds were separated using a DB-5ms silica fused capillary column (30m length x 0.32mm i.d. x 0.25µm film thickness). The oven temperature program was: 60°C increased to 300°C with 5°C/min. The flow rate of the carrier gas (He) was maintained at 1.0 mL/min. The injection volume was 1.0 µl at a split ratio of 30:1. The temperatures of the ionization source, the quadrupole, and the injector were 230°C, 150°C, and 250°C, respectively. The MSD was operated in full scan mode. All mass spectra were acquired in electron impact (EI) mode with 70 eV. The constituents in the EO samples were identified by comparing their linear retention indices (LRI) and MS fragmentation patterns with those from the National Institute of Standards and Technology (NIST′08) and Adams mass spectra libraries.

The chemical composition of the *Urtica dioica* essential oil analysis is presented in Table 1 and Figure 1, respectively. RT (retention time); TIC (total ion current).

Table 1. Chemical composition of *Urtica dioica* essential oil

Peak	RT	Name	% of TIC
1	9.25	α-Pinene	0.26
2	12.25	p-Cymene	0.12
3	12.44	Limonene	10.97
4	17.62	trans-Dihydrocarvone	0.60
5	10.00	Carvone	28.86
6	20.16	Anethole	0.22
7	21.78	Limonene-1,2-diol	0.28
8	28.13	Carotol	0.81
9	29.72	Apiol	0.56
10	35.10	Palmitic acid	2.59
11	39.23	Linoleic acid	28.45
12	39.39	Oleic acid	17.88
13	39.63	Stearic acid	0.82
14	43.97	n-Tetracosane	2.76
15	44.07	Cithrol A	2.67
16	47.20	n-Pentacosane	0.69
17	50.79	n-Nonacosane	0.38
18	53.22	n-Triacontane	0.52

Figure 1 Chromatogram of *Urtica dioica* essential oil

