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CERTIFICATE OF ANALYSIS

GC-MS DETERMINATION OF *HELICHRYSUM* CO₂ EXTRACT,

The composition of *Helichrysum* CO₂ 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 used was: 60°C increased to 300°C with 5°C/min. The flow rate of the carrier gas (He) was maintained at 1.0ml/min. The injection volume was 1.0 µl at split ratio 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 present 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 results of the analysis of *Helichrysum* CO₂ extract are presented in Table 1 and Figure 1, respectively.

Табл. 1. Chemical composition of *Helichrysum* CO₂ extract

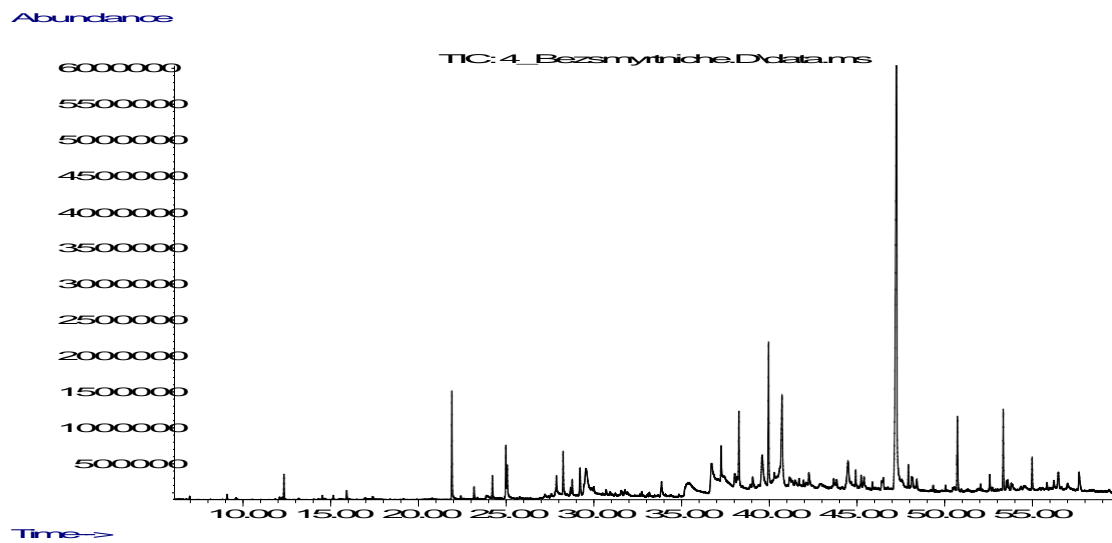
<i>Helichrysum</i> CO ₂ extract				
Peak	RT	RI	Name	% of TIC
1	9.14	933	α -Pinene	0.17
2	12.38	1026	Eucalyptol	0.80
3	14.56	1093	β -Linalool	0.16
4	15.20	1120	Chrysanthenone	0.15
5	15.97	1140	Camphor	0.31
6	16.70	1190	α -Terpineol	0.13
7	21.93	1344	Nerol acetate	3.55
8	23.19	1406	Italicene	0.42
9	23.56	1415	β -Caryophyllene	0.17
10	24.23	1456	Neryl propanoate	0.91
11	25.00	1481	α -Curcumene	1.97
12	25.08	1490	γ -Curcumene	6.54
13	27.88	1598	Guaiol	1.72
14	28.26	1609	5-epi-7-epi- α -Eudesmol	2.04
15	28.68	1630	γ -Eudesmol	0.42
16	28.70	1647	β -Eudesmol	1.61
17	29.56	1655	α -Eudesmol	4.50
18	33.20	1730	Curcumenol	1.25
19	36.71	1838	Eudesm-7(11)-en-4-ol, acetate	5.56
21	38.20	1949	Acetoxyeudesman-4 α -ol	4.59
22	39.95	2141	2 α -acetoxy-11-metoxy-amorpha-4,7-diene	7.33
24	40.71	2197	n-Docosane	6.58
26	47.22	2589	(13Z)-Docosenoic acid	28.47
27	50.69	2800	n-Octacosane	5.43
28	53.31	2900	n-Nonacosane	5.89
29	53.55	3150	Vitamin E	0.42

RT - retention time

RI - Relative index

TIC - Total ion current

Figure 1 Chromatogram of *Helichrysum* CO₂ extract



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