



Suleyman Demirel University
Natural Product Application and Research
Center
(SUDUM)



Report Number 2507099
Report Date 24.07.2025

PRIVATE REQUEST ANALYSIS REPORT

Purpose of Analysis : Content Analysis with GC-MS
Request Submitted By : Balkan Tibbi Tarim San. ve Tic. Ltd. Sti.
Date the sample was taken : 23.07.2025
Date of the experiment : 23.07.2025
Name and identity of test item : Helichrysum italicum Oil-IV (Day 6-7)
Production date : 26.06.2025

TEST RESULTS

No	Detected Active Substance	% Quantity	Measurement Limit	Unit	Analysis Method
1	α -Pinene	16.51	0.01%	% (Peak rate)	GC-MS
2	Camphene	1.23	0.01%	% (Peak rate)	GC-MS
3	β -Pinene	0.39	0.01%	% (Peak rate)	GC-MS
4	α -Myrcene	0.05	0.01%	% (Peak rate)	GC-MS
5	Delta-3-carene	0.03	0.01%	% (Peak rate)	GC-MS
6	α -Terpinene	0.24	0.01%	% (Peak rate)	GC-MS
7	o-Cymene	0.08	0.01%	% (Peak rate)	GC-MS
8	dl-Limonene	3.43	0.01%	% (Peak rate)	GC-MS
9	cis-Ocimene	0.01	0.01%	% (Peak rate)	GC-MS
10	α -Ocimene Y	0.04	0.01%	% (Peak rate)	GC-MS
11	γ -Terpinene	0.77	0.01%	% (Peak rate)	GC-MS
12	α -Terpinolene	0.12	0.01%	% (Peak rate)	GC-MS
13	α -Linalool	0.52	0.01%	% (Peak rate)	GC-MS
14	2-Methylbutyl 2-methylbutyrate	0.09	0.01%	% (Peak rate)	GC-MS
15	p-Vinylanisole	0.03	0.01%	% (Peak rate)	GC-MS
16	2-methyl butyl angelate	0.51	0.01%	% (Peak rate)	GC-MS
17	4-Terpineol	0.22	0.01%	% (Peak rate)	GC-MS
18	α -Terpineol	0.48	0.01%	% (Peak rate)	GC-MS
19	4-Methyl-3-hexanone	0.01	0.01%	% (Peak rate)	GC-MS
20	n-Dodecane	0.04	0.01%	% (Peak rate)	GC-MS
21	n-Decanal	0.04	0.01%	% (Peak rate)	GC-MS
22	Nerol	0.30	0.01%	% (Peak rate)	GC-MS
23	Hexyl senecioate	0.17	0.01%	% (Peak rate)	GC-MS
24	α -Amorphene	0.28	0.01%	% (Peak rate)	GC-MS
25	α -Ylangene	0.05	0.01%	% (Peak rate)	GC-MS
26	α -Copaene	2.47	0.01%	% (Peak rate)	GC-MS
27	Neryl acetate	11.43	0.01%	% (Peak rate)	GC-MS
28	Italidione I + Italidione II	4.68	0.01%	% (Peak rate)	GC-MS
29	Italidione III	3.46	0.01%	% (Peak rate)	GC-MS
30	Italicene	2.22	0.01%	% (Peak rate)	GC-MS
31	trans-Caryophyllene	3.09	0.01%	% (Peak rate)	GC-MS
32	α -Bergamotene	0.84	0.01%	% (Peak rate)	GC-MS
33	Trans- α -Bergamotene	0.76	0.01%	% (Peak rate)	GC-MS
34	Bisabolane	5.07	0.01%	% (Peak rate)	GC-MS
35	Acoradiene	0.59	0.01%	% (Peak rate)	GC-MS
36	Geranyl propionate	1.69	0.01%	% (Peak rate)	GC-MS
37	α -Selinene	6.23	0.01%	% (Peak rate)	GC-MS
38	γ -Curcumene	17.40	0.01%	% (Peak rate)	GC-MS
39	ar-Curcumene	1.85	0.01%	% (Peak rate)	GC-MS
40	(-)- α -Selinene	6.17	0.01%	% (Peak rate)	GC-MS
41	γ -Muurolene	3.27	0.01%	% (Peak rate)	GC-MS
42	α -Himachalene	0.36	0.01%	% (Peak rate)	GC-MS
43	e-Cadinene	1.14	0.01%	% (Peak rate)	GC-MS
44	Rosifoliol	0.16	0.01%	% (Peak rate)	GC-MS
45	Junipercamphor	0.27	0.01%	% (Peak rate)	GC-MS
46	Other compounds	1.23	0.01%	% (Peak rate)	GC-MS
Total		100.00			

As a result of the examinations and analyzes carried out, the values mentioned above were determined.

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