



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



Report Date

19.01.2024

PRIVATE REQUEST ANALYSIS REPORT

Purpose of Analysis : Content Analysis with GC-MS  
Date the sample was taken : 16.01.2024  
Date of the experiment : 18.01.2024  
Name and identity of test item : Origano oil

TEST RESULTS

No	Detected Active Substance	% Quantity	Measurement Limit	Unit	Analysis Method
1	$\alpha$ -Thujene	0.01	0.01%	% (Peak rate)	GC-MS
2	$\alpha$ -Pinene	0.06	0.01%	% (Peak rate)	GC-MS
3	Camphene	0.02	0.01%	% (Peak rate)	GC-MS
4	Sabinene	0.03	0.01%	% (Peak rate)	GC-MS
5	1-Octen-3-ol	0.06	0.01%	% (Peak rate)	GC-MS
6	$\alpha$ -Myrcene	0.20	0.01%	% (Peak rate)	GC-MS
7	l-Phellandrene	0.06	0.01%	% (Peak rate)	GC-MS
8	$\alpha$ -Terpinene	0.29	0.01%	% (Peak rate)	GC-MS
9	p-Cymene	1.88	0.01%	% (Peak rate)	GC-MS
10	cis-Ocimene	0.03	0.01%	% (Peak rate)	GC-MS
11	$\alpha$ -Ocimene Y	0.04	0.01%	% (Peak rate)	GC-MS
12	$\zeta$ -Terpinene	0.83	0.01%	% (Peak rate)	GC-MS
13	trans-Sabinene Hydrate	0.02	0.01%	% (Peak rate)	GC-MS
14	trans-Linalool oxide	0.03	0.01%	% (Peak rate)	GC-MS
15	$\alpha$ -Terpinolene	0.10	0.01%	% (Peak rate)	GC-MS
16	cis-Sabinene Hydrate	0.04	0.01%	% (Peak rate)	GC-MS
17	$\alpha$ -Linalool	6.36	0.01%	% (Peak rate)	GC-MS
18	Borneol	0.91	0.01%	% (Peak rate)	GC-MS
19	4-Terpineol	0.67	0.01%	% (Peak rate)	GC-MS
20	Fenchyl alcohol	0.19	0.01%	% (Peak rate)	GC-MS
21	Dihydrocarvone	0.03	0.01%	% (Peak rate)	GC-MS
22	d-Carvone	0.14	0.01%	% (Peak rate)	GC-MS
23	Carvacrol methyl ether	0.05	0.01%	% (Peak rate)	GC-MS
24	Carvenone	0.04	0.01%	% (Peak rate)	GC-MS
25	Linalyl acetate	0.02	0.01%	% (Peak rate)	GC-MS
26	Anethole	0.03	0.01%	% (Peak rate)	GC-MS
27	Tymol	1.76	0.01%	% (Peak rate)	GC-MS
28	Carvacrol	80.26	0.01%	% (Peak rate)	GC-MS
29	Carvacryl acetate	0.19	0.01%	% (Peak rate)	GC-MS
30	trans-Caryophyllene	0.88	0.01%	% (Peak rate)	GC-MS
31	Aromadendrene	0.15	0.01%	% (Peak rate)	GC-MS
32	trans- $\alpha$ -Farnesene	0.06	0.01%	% (Peak rate)	GC-MS
33	$\alpha$ -Humulene	0.06	0.01%	% (Peak rate)	GC-MS
34	Germacrene-D	0.05	0.01%	% (Peak rate)	GC-MS
35	Ledene	0.10	0.01%	% (Peak rate)	GC-MS
36	$\alpha$ -Bisabolene	2.45	0.01%	% (Peak rate)	GC-MS
37	e-Cadinene	0.08	0.01%	% (Peak rate)	GC-MS
38	(-)-Spathulenol	0.15	0.01%	% (Peak rate)	GC-MS
39	Caryophyllene oxide	0.21	0.01%	% (Peak rate)	GC-MS
40	$\alpha$ -Cadinol	0.25	0.01%	% (Peak rate)	GC-MS
41	Other Compounds	1.21	0.01%	% (Peak rate)	GC-MS
<b>Total</b>		<b>100.00</b>			

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

**NOTE 1 :** This analysis report cannot be used in judicial-administrative procedures and for advertising purposes.

**NOTE 2 :** No part of this analysis report can be used alone or separately.

**NOTE 3 :** The results of the analysis are valid for the sample mentioned above.

**NOTE 4 :** Our reports cannot be reproduced and published without our permission. Unsigned reports are invalid.

Head of Sample Acceptance and Reporting  
Academician Osman BODUR

Laboratory Manager  
Academician Taner ERKAYMAZ