



# Suleyman Demirel University

## Natural Product Application and Research Center



Report Number 2407066  
Report Date 25.07.2024

### 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** 22.07.2024  
**Date of the experiment** 23.07.2024  
**Name and identity of test item** Lavender oil

### TEST RESULTS

No	Detected Active Substance	% Quantity	Measurement Limit	Unit	Analysis Method
1	$\alpha$ -Thujene	0.07	0.01%	% (Peak rate)	GC-MS
2	$\alpha$ -Pinene	0.21	0.01%	% (Peak rate)	GC-MS
3	Camphene	0.10	0.01%	% (Peak rate)	GC-MS
4	$\beta$ -Pinene	0.05	0.01%	% (Peak rate)	GC-MS
5	1-Octen-3-ol	0.04	0.01%	% (Peak rate)	GC-MS
6	3-Octanone	0.60	0.01%	% (Peak rate)	GC-MS
7	$\alpha$ -Myrcene	0.70	0.01%	% (Peak rate)	GC-MS
8	3-Octanol	0.18	0.01%	% (Peak rate)	GC-MS
9	$\alpha$ -Terpinene	0.09	0.01%	% (Peak rate)	GC-MS
10	1-Hexyl acetate	0.60	0.01%	% (Peak rate)	GC-MS
11	$\alpha$ -Phellandrene	0.09	0.01%	% (Peak rate)	GC-MS
12	dl-Limonene	0.17	0.01%	% (Peak rate)	GC-MS
13	1,8-Cineole (Eucalyptol)	0.86	0.01%	% (Peak rate)	GC-MS
14	Cis- $\beta$ -Ocimene	4.02	0.01%	% (Peak rate)	GC-MS
15	trans- $\beta$ -Ocimene	3.42	0.01%	% (Peak rate)	GC-MS
16	$\gamma$ -Terpinene	0.11	0.01%	% (Peak rate)	GC-MS
17	cis-Sabinene hydrate	0.05	0.01%	% (Peak rate)	GC-MS
18	cis-Linalool oxide	0.06	0.01%	% (Peak rate)	GC-MS
19	$\alpha$ -Terpinolene	0.03	0.01%	% (Peak rate)	GC-MS
20	trans-Linalool oxide	0.07	0.01%	% (Peak rate)	GC-MS
21	$\alpha$ -Linalool	30.42	0.01%	% (Peak rate)	GC-MS
22	1-Octen-3-yl acetate	0.62	0.01%	% (Peak rate)	GC-MS
23	Allocimene	0.94	0.01%	% (Peak rate)	GC-MS
24	Camphor	0.13	0.01%	% (Peak rate)	GC-MS
25	n-Hexyl isobutyrate	0.07	0.01%	% (Peak rate)	GC-MS
26	Borneol	0.45	0.01%	% (Peak rate)	GC-MS
27	(-)-Lavandulol	0.43	0.01%	% (Peak rate)	GC-MS
28	4-Terpineol	4.28	0.01%	% (Peak rate)	GC-MS
29	Cryptone	0.03	0.01%	% (Peak rate)	GC-MS
30	$\alpha$ -Terpineol	0.68	0.01%	% (Peak rate)	GC-MS
31	Hexyl butanoate	0.51	0.01%	% (Peak rate)	GC-MS
32	Bornyl formate	0.03	0.01%	% (Peak rate)	GC-MS
33	Geraniol	0.03	0.01%	% (Peak rate)	GC-MS
34	Cuminic aldehyde	0.09	0.01%	% (Peak rate)	GC-MS
35	d-Carvone	0.06	0.01%	% (Peak rate)	GC-MS
36	Hexyl-2-methyl butyrate	0.04	0.01%	% (Peak rate)	GC-MS
37	Hexyl isovalerate	0.03	0.01%	% (Peak rate)	GC-MS
38	Linalyl acetate	34.41	0.01%	% (Peak rate)	GC-MS
39	Endobornyl acetate	0.21	0.01%	% (Peak rate)	GC-MS
40	Lavandulyl acetate	4.83	0.01%	% (Peak rate)	GC-MS
41	Hexyl tiglate	0.04	0.01%	% (Peak rate)	GC-MS
42	Neryl Acetate	0.34	0.01%	% (Peak rate)	GC-MS
43	$\alpha$ -Bourbonene	0.04	0.01%	% (Peak rate)	GC-MS
44	Zingiberene	0.03	100.01%	% (Peak rate)	GC-MS
45	Geranyl Acetate	0.57	0.01%	% (Peak rate)	GC-MS
46	Hexyl hexoate	0.06	0.01%	% (Peak rate)	GC-MS
47	trans-Caryophyllene	3.25	0.01%	% (Peak rate)	GC-MS
48	Santalen	0.30	0.01%	% (Peak rate)	GC-MS
49	$\alpha$ -Bergamotene	0.09	0.01%	% (Peak rate)	GC-MS
50	$\alpha$ -Humulene	0.13	0.01%	% (Peak rate)	GC-MS
51	trans- $\alpha$ -Farnesene	3.45	0.01%	% (Peak rate)	GC-MS
52	Germacrene-D	0.21	0.01%	% (Peak rate)	GC-MS
53	Geranyl isovalerate	0.09	0.01%	% (Peak rate)	GC-MS
54	Caryophyllene oxide	0.21	0.01%	% (Peak rate)	GC-MS
55	$\alpha$ -Cadinol	0.07	0.01%	% (Peak rate)	GC-MS
56	Other Compounds	1.28	0.01%	% (Peak rate)	GC-MS
<b>Total</b>		<b>100.00</b>			

As a result of the examinations and analyzes carried out, the above mentioned compounds 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