



# Suleyman Demirel University

## Natural Product Application and Research Center



Report Number 2408070  
Report Date 23.08.2024

### PRIVATE REQUEST ANALYSIS REPORT

Purpose of Analysis Content Analysis with GC-MS  
Request Submitted By İNAN TARIM ÜRÜNLERİ TİC. ABDULLAH İNAN  
Date the sample was taken 22.08.2024  
Date of the experiment 22.08.2024  
Name and identity of test item Vitex Oil  
Lot No 2024-P28S06

### TEST RESULTS

No	Detected Active Substance	% Quantity	Measurement Limit	Unit	Analysis Method
1	$\alpha$ -Thujene	0.39	0.01%	% (Peak rate)	GC-MS
2	$\alpha$ -Pinene	12.70	0.01%	% (Peak rate)	GC-MS
3	Sabinene	16.68	0.01%	% (Peak rate)	GC-MS
4	$\alpha$ -Myrcene	1.34	0.01%	% (Peak rate)	GC-MS
5	l-Phellandrene	0.18	0.01%	% (Peak rate)	GC-MS
6	$\alpha$ -Terpinene	0.53	0.01%	% (Peak rate)	GC-MS
7	p-Cymene	1.49	0.01%	% (Peak rate)	GC-MS
8	$\alpha$ -Phellandrene	1.22	0.01%	% (Peak rate)	GC-MS
9	1,8-Cineole (Eucalyptol)	26.38	0.01%	% (Peak rate)	GC-MS
10	Delta-3-Carene	0.09	0.01%	% (Peak rate)	GC-MS
11	$\gamma$ -Terpinene	0.79	0.01%	% (Peak rate)	GC-MS
12	trans-Sabinene hydrate	0.19	0.01%	% (Peak rate)	GC-MS
13	$\alpha$ -Terpinolene	0.22	0.01%	% (Peak rate)	GC-MS
14	Linalyl butyrate	0.19	0.01%	% (Peak rate)	GC-MS
15	4-Terpineol	2.71	0.01%	% (Peak rate)	GC-MS
16	$\alpha$ -Terpineol	1.22	0.01%	% (Peak rate)	GC-MS
17	Pulegone	0.29	0.01%	% (Peak rate)	GC-MS
18	Bornyl acetate	0.07	0.01%	% (Peak rate)	GC-MS
19	Carvacrol	0.09	0.01%	% (Peak rate)	GC-MS
20	Ascaridole	0.06	0.01%	% (Peak rate)	GC-MS
21	Bicycloelemene	0.81	0.01%	% (Peak rate)	GC-MS
22	$\alpha$ -Terpinenyl acetate	2.88	0.01%	% (Peak rate)	GC-MS
23	$\alpha$ -Bourbonene	0.09	0.01%	% (Peak rate)	GC-MS
24	trans- $\gamma$ -Bisabolene	0.08	0.01%	% (Peak rate)	GC-MS
25	$\alpha$ -Gurjunene	0.70	0.01%	% (Peak rate)	GC-MS
26	trans- $\beta$ -Caryophyllene	13.19	0.01%	% (Peak rate)	GC-MS
27	(+)-Calarene	0.14	0.01%	% (Peak rate)	GC-MS
28	Aromadendrene	0.17	0.01%	% (Peak rate)	GC-MS
29	trans- $\alpha$ -Bergamotene	0.30	0.01%	% (Peak rate)	GC-MS
30	$\alpha$ -Humulene	0.75	0.01%	% (Peak rate)	GC-MS
31	Alloaromadendrene	1.73	0.01%	% (Peak rate)	GC-MS
32	(Z)- $\beta$ -Farnesene	4.73	0.01%	% (Peak rate)	GC-MS
33	Germacrene-D	0.35	0.01%	% (Peak rate)	GC-MS
34	Bicyclogermacrene	2.79	0.01%	% (Peak rate)	GC-MS
35	Cedr-8-ene	0.17	0.01%	% (Peak rate)	GC-MS
36	(+)-Spathulenol	0.79	0.01%	% (Peak rate)	GC-MS
37	Caryophyllene oxide	0.96	0.01%	% (Peak rate)	GC-MS
38	(-)-Spathulenol	0.41	0.01%	% (Peak rate)	GC-MS
39	Cadinol	0.43	0.01%	% (Peak rate)	GC-MS
40	Other Compounds	1.68	0.01%	% (Peak rate)	GC-MS
Total		100.00			

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