



Essential Oil University

GC/MS Report

Item	Lot
Thyme (ct. Linalool) EO <i>Thymus vulgaris</i>	3AF
Date	Analyst
4/11/2025	Dr. Robert S. Pappas

© Copyright 2025 by Essential Oil University. All rights reserved. Any publishing, copying, use, dissemination, or distribution of this report, including online, without the express written permission of Essential Oil University is strictly prohibited.

The analysis of this batch sample, Thyme (ct. Linalool) EO, meets the expected chemical profile for authentic essential oil of *Thymus vulgaris*. No contamination or adulteration was detected. The results provided in this GCMS quality analysis reflect the chemical composition of the oil and lot referenced above on the date of analysis.



Sample Information

Company: Revive**Sample Name:** Thyme (ct. Linalool) EO**Botanical Name:** Thymus vulgaris**Lot Number:** 3AF**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** France**Analysis Date:** 4/11/2025**Manufacture Date:** February 2025

GC/MS

Inst. ID: Shimadzu GCMS-QP2010Ultra**Injection Type:** Split**Split Ratio:** 24.4**Column Type:** ZB-5**Injection Volume:** 0.1 µL**Temperature Program:** 2C/min

Physical Data

ANALYSIS

Optical Rotation @20°C

Refractive Index @20°C

Specific Gravity @20°C

METHOD

USP[781]

USP[831]

USP[841]

RESULTS

-17.04

1.46218

0.87313



Ret. Time	Component	Ret. Idx.	Conc. %	
9.622	Unidentified	880	0.01%	
11.518	Tricyclene	921	0.23%	
11.665	alpha-Thujene	924	0%	
12.066	alpha-Pinene	931	0.56%	
12.386	beta-Fenchene	937	0.01%	
12.858	alpha-Fenchene	946	0.03%	
12.954	Camphene	948	1.21%	
14.205	Sabinene	971	0%	
14.498	beta-Pinene	976	0.04%	
15.129	Myrcene	988	0.08%	
16.172	alpha-Phellandrene	1006	0.02%	
16.824	alpha-Terpinene	1016	0.02%	
17.303	para-Cymene	1023	0.14%	
17.598	Limonene	1028	0.09%	IFRA
17.705	beta-Phellandrene	1029	0.02%	
17.773	1,8-Cineole	1030	0.65%	
18.003	cis-beta-Ocimene	1034	0.05%	
18.674	trans-beta-Ocimene	1044	0.06%	
19.450	gamma-Terpinene	1056	0.03%	
20.243	cis-Linalool oxide (furanoid)	1069	0.11%	
21.309	trans-Linalool oxide (furanoid)	1085	0.29%	
21.495	Unidentified	1088	0.01%	
21.671	Unidentified	1091	0.01%	
22.418	Linalool	1102	75.82%	IFRA
22.609	Nonanal	1105	0.06%	
22.765	Unidentified	1107	0.01%	
23.535	endo-Fenchol	1118	0.01%	
24.090	Unidentified	1126	0.02%	
25.419	Camphor	1146	1.63%	
26.536	Unidentified	1162	0.02%	
27.114	Borneol	1170	0.49%	
27.718	Terpinen-4-ol	1179	0.07%	
28.224	Unidentified	1186	0%	
28.507	Unidentified	1191	0.01%	
28.718	alpha-Terpineol	1194	0.13%	
32.149	Unidentified	1244	0.02%	
32.477	Linalyl acetate	1249	13.66%	
33.215	Unidentified	1260	0.04%	
34.756	Bornyl acetate	1282	0.35%	
34.929	Isobornyl acetate	1285	0.01%	



Ret. Time	Component	Ret. Idx.	Conc. %	
35.692	Carvacrol	1296	0.05%	
37.959	Unidentified	1331	0.01%	
38.715	Unidentified	1342	0%	
38.914	alpha-Copaene	1345	0.01%	
39.673	Neryl acetate	1357	0.01%	
40.776	alpha-Copaene	1374	0.06%	
40.954	Geranyl acetate	1376	0.07%	
41.671	beta-Elemene	1387	0.02%	
43.573	beta-Caryophyllene	1417	2.57%	
44.199	gamma-Elemene	1427	0.02%	
44.431	trans-alpha-Bergamotene	1431	0.04%	
45.684	trans-beta-Farnesene	1451	0.01%	
45.810	alpha-Humulene	1453	0.06%	
47.022	gamma-Muurolene	1472	0.01%	
47.396	Germacrene D	1478	0.53%	
47.878	beta-Selinene	1486	0.01%	
48.297	Bicyclogermacrene	1493	0.02%	
48.494	trans-Murrola-4(14),5-diene	1496	0.01%	
48.735	Unidentified	1500	0.01%	
49.063	beta-Bisabolene	1505	0.03%	
49.359	gamma-Cadinene	1510	0.01%	
49.665	delta-Cadinene	1516	0.03%	
52.051	Germacrene B	1556	0.02%	
53.416	Caryophyllene oxide	1579	0.37%	

Total Identified Compounds **99.83 %**

