



Essential Oil University

GC/MS Report

Item	Lot
Thyme (ct. Linalool) EO <i>Thymus vulgaris</i>	9G
Date	Analyst
1/10/2025	Dr. Robert S. Pappas

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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:** 9G**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** France**Analysis Date:** 1/10/2025**Manufacture Date:** December 2024

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

-16.56

1.46204

0.87294



Ret. Time	Component	Ret. Idx.	Conc. %	
9.739	Unidentified	879	0.01%	
11.653	Tricyclene	920	0.24%	
12.208	alpha-Pinene	930	0.56%	
12.525	beta-Fenchene	936	0.01%	
13.003	alpha-Fenchene	944	0.03%	
13.098	Camphene	946	1.27%	
14.657	beta-Pinene	975	0.04%	
15.301	Myrcene	986	0.16%	
16.342	alpha-Phellandrene	1004	0.02%	
17.007	Unidentified	1015	0.02%	
17.478	para-Cymene	1022	0.16%	
17.775	Limonene	1026	0.12%	IFRA
17.880	beta-Phellandrene	1028	0.03%	
17.937	1,8-Cineole	1029	0.66%	
18.178	cis-beta-Ocimene	1033	0.07%	
18.859	trans-beta-Ocimene	1043	0.1%	
19.643	Unidentified	1055	0.02%	
20.215	Unidentified	1064	0%	
20.432	cis-Linalool oxide (furanoid)	1067	0.09%	
21.498	trans-Linalool oxide (furanoid)	1083	0.25%	
22.583	Linalool	1100	74.83%	IFRA
22.792	Nonanal	1103	0.03%	
23.733	Unidentified	1117	0.01%	
24.288	Unidentified	1125	0.02%	
24.364	Unidentified	1126	0.01%	
25.611	Camphor	1144	1.76%	
26.734	Unidentified	1160	0.01%	
27.316	Borneol	1169	0.51%	
27.930	Terpinen-4-ol	1178	0.07%	
28.425	Unidentified	1185	0.01%	
28.728	Unidentified	1189	0.01%	
28.930	alpha-Terpineol	1192	0.14%	
32.374	Unidentified	1243	0.02%	
32.691	Linalyl acetate	1247	14.72%	
33.441	Unidentified	1258	0.03%	
34.980	Bornyl acetate	1281	0.35%	
35.919	Carvacrol	1295	0.04%	
39.911	Unidentified	1355	0.01%	
41.032	alpha-Copaene	1372	0.04%	
41.187	Geranyl acetate	1375	0.06%	



Ret. Time	Component	Ret. Idx.	Conc. %	
41.929	beta-Elemene	1386	0.01%	
43.828	beta-Caryophyllene	1416	2.76%	
44.459	gamma-Elemene	1426	0.01%	
44.686	trans-alpha-Bergamotene	1429	0.04%	
45.925	trans-beta-Farnesene	1449	0.01%	
46.069	alpha-Humulene	1452	0.05%	
46.322	Unidentified	1456	0.01%	
47.274	9-epi-(E)-Caryophyllene	1471	0.01%	
47.445	Unidentified	1474	0.01%	
47.660	Germacrene D	1477	0.21%	
48.132	Unidentified	1485	0.01%	
49.012	Unidentified	1499	0.01%	
49.329	beta-Bisabolene	1504	0.02%	
49.623	Unidentified	1509	0.01%	
49.940	delta-Cadinene	1514	0.02%	
52.315	Germacrene B	1554	0.02%	
53.685	Caryophyllene oxide	1577	0.31%	

Total Identified Compounds **99.83 %**

