



Essential Oil University

GC/MS Report

Item	Lot
Lavender EO <i>Lavandula angustifolia</i>	7Q
Date	Analyst
5/1/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Lavender EO, meets the expected chemical profile for authentic essential oil of *Lavandula angustifolia*. 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:** Lavender EO**Botanical Name:** Lavandula angustifolia**Lot Number:** 7Q**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** Bulgaria**Analysis Date:** 5/1/2025**Manufacture Date:** January 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

-8.96

1.46139

0.88039



Ret. Time	Component	Ret. Idx.	Conc. %	
3.591	Unidentified	608	0.01%	
4.003	3-Methylbutanal	650	0.02%	
5.114	3-Methyl 1-butanol	729	0%	
5.860	Toluene	764	0%	
7.033	Butyl acetate	811	0.01%	
7.430	Diola (1-Methoxyhexane)	822	0.14%	
8.503	Hex-(3Z)-enol	850	0.02%	
8.996	Hexanol	864	0.09%	
11.543	Tricyclene	922	0.02%	
11.690	alpha-Thujene	924	0.08%	
11.985	Unidentified	930	0.01%	
12.089	alpha-Pinene	932	0.16%	
12.976	Camphene	948	0.12%	
14.225	Sabinene	971	0.03%	
14.530	beta-Pinene	977	0.02%	
14.571	1-Octen-3-ol	977	0.22%	
14.895	Octan-3-one	983	1.38%	
15.149	Myrcene	988	0.68%	
15.513	Butyl butyrate	995	0.1%	
15.578	Octan-3-ol	996	0.27%	
16.197	alpha-Phellandrene	1006	0.03%	
16.339	delta-3-Carene	1008	0.08%	
16.501	Hexyl acetate	1011	0.65%	
16.850	alpha-Terpinene	1016	0.05%	
17.009	ortho-Cymene	1019	0.03%	
17.330	para-Cymene	1024	0.13%	
17.623	Limonene	1028	0.34%	IFRA
17.726	beta-Phellandrene	1030	0.21%	
17.801	1,8-Cineole	1031	0.73%	
18.028	cis-beta-Ocimene	1034	3.96%	
18.701	trans-beta-Ocimene	1045	2.44%	
19.476	gamma-Terpinene	1057	0.15%	
20.265	cis-Linalool oxide (furanoid)	1069	0.17%	
21.262	Terpinolene	1084	0.1%	
21.324	trans-Linalool oxide (furanoid)	1085	0.1%	
22.314	Linalool	1100	33.05%	IFRA
22.472	Hotrienol	1103	0.07%	
22.575	Hexyl propionate	1104	0.05%	
22.741	1-Octen-3-yl acetate	1107	0.96%	IFRA
23.552	3-Octyl acetate	1118	0.14%	



Ret. Time	Component	Ret. Idx.	Conc. %	
23.883	Unidentified	1123	0.01%	
24.143	allo-Ocimene	1127	0.18%	
25.436	Camphor	1146	0.23%	
25.610	Unidentified	1148	0.01%	
26.566	Lavandulol	1162	0.93%	
26.974	cis-Linalool oxide (pyranoid)	1168	0.01%	
27.139	Borneol	1171	0.49%	
27.311	trans-Linalool oxide (pyranoid)	1173	0.02%	
27.396	(3E,5Z)-Undeca-1,3,5-triene	1174	0.04%	
27.750	Terpinen-4-ol	1180	3.73%	
28.157	Cryptone	1186	0.19%	
28.518	Hexyl butyrate	1191	0.46%	
28.743	alpha-Terpineol	1194	1.15%	
30.721	Nerol	1223	0.14%	
31.005	Bornyl formate	1227	0.03%	
31.527	Hexyl 2-methylbutyrate	1235	0.04%	
31.961	Cuminal	1241	0.06%	IFRA
32.066	Carvone	1243	0.02%	IFRA
32.524	Linalyl acetate	1250	31.25%	
33.976	Unidentified	1271	0.02%	
34.758	Lavandulyl acetate	1282	4.04%	
35.263	para-Cymen-7-ol	1290	0.02%	
37.807	Hexyl tiglate	1328	0.03%	
39.694	Neryl acetate	1357	0.34%	
40.798	alpha-Copaene	1374	0%	
40.975	Geranyl acetate	1377	0.6%	
41.314	beta-Bourbonene	1382	0.03%	
41.491	Hexyl hexanoate	1385	0.11%	
41.580	7-epi-Sesquithujene	1386	0.08%	
42.537	alpha-Funebrene	1401	0.02%	
43.208	cis-alpha-Bergamotene	1411	0.04%	
43.596	beta-Caryophyllene	1418	4.02%	
44.458	trans-alpha-Bergamotene	1431	0.15%	
44.927	cis-beta-Farnesene	1439	0.01%	
45.143	Unidentified	1442	0.02%	
45.321	Unidentified	1445	0.01%	
45.708	trans-beta-Farnesene	1451	3.67%	
45.834	alpha-Humulene	1453	0.11%	
45.977	Sesquisabinene	1456	0.03%	
47.200	Unidentified	1475	0.01%	



Ret. Time	Component	Ret. Idx.	Conc. %	
47.422	Germacrene D	1479	0.44%	
47.615	trans-beta-Bergamotene	1482	0.05%	
48.304	Bicyclogermacrene	1493	0.01%	
49.090	beta-Bisabolene	1506	0.02%	
49.385	gamma-Cadinene	1511	0.08%	
49.678	Unidentified	1516	0.02%	
53.440	Caryophyllene oxide	1579	0.19%	
56.897	tau-Cadinol	1640	0.04%	

Total Identified Compounds **99.9 %**

