



Essential Oil University

GC/MS Report

Item	Lot
Lavender EO <i>Lavandula angustifolia</i>	7B
Date	Analyst
4/30/2025	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:** 7B**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** Bulgaria**Analysis Date:** 4/30/2025**Manufacture Date:** April 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

1.46144

0.88058



Ret. Time	Component	Ret. Idx.	Conc. %	
3.030	Unidentified	552	0.02%	
3.574	Unidentified	607	0.01%	
3.983	3-Methylbutanal	648	0.02%	
4.298	3-Penten-2-ol	680	0.01%	
7.000	Butyl acetate	810	0.02%	
7.394	1-Methoxyhexane	821	0.14%	
8.461	Hex-(3Z)-enol	849	0.03%	
8.954	Hexanol	862	0.09%	
11.490	Tricyclene	921	0.02%	
11.638	alpha-Thujene	923	0.09%	
12.037	alpha-Pinene	931	0.17%	
12.922	Camphene	947	0.13%	
14.168	Sabinene	970	0.03%	
14.515	1-Octen-3-ol	976	0.27%	
14.836	3-Octanone	982	1.37%	
15.092	Myrcene	987	0.64%	
15.455	Butyl butyrate	994	0.09%	
15.519	3-Octanol	995	0.29%	
16.053	Unidentified	1004	0.01%	
16.134	alpha-Phellandrene	1005	0.03%	
16.277	delta-3-Carene	1007	0.08%	
16.442	Hexyl acetate	1010	0.64%	
16.786	alpha-Terpinene	1015	0.05%	
16.946	ortho-Cymene	1018	0.03%	
17.268	para-Cymene	1023	0.14%	
17.558	Limonene	1027	0.34%	IFRA
17.661	beta-Phellandrene	1029	0.21%	
17.736	1,8-Cineole	1030	0.74%	
17.968	cis-beta-Ocimene	1033	4.05%	
18.639	trans-beta-Ocimene	1044	2.46%	
19.409	gamma-Terpinene	1056	0.15%	
20.200	cis-Linalool oxide (furanoid)	1068	0.2%	
21.196	Terpinolene	1083	0.1%	
21.258	trans-Linalool oxide (furanoid)	1084	0.11%	
21.623	Rosefuran	1090	0.01%	
22.253	Linalool	1100	32.57%	IFRA
22.407	Hotrienol	1102	0.07%	
22.512	Hexyl propionate	1103	0.04%	
22.673	1-Octen-3-yl acetate	1106	0.92%	IFRA
22.966	Unidentified	1110	0.01%	



Ret. Time	Component	Ret. Idx.	Conc. %	
23.483	3-Octyl acetate	1117	0.13%	
23.813	Unidentified	1122	0.03%	
24.072	allo-Ocimene	1126	0.19%	
25.365	Camphor	1145	0.24%	
25.513	Unidentified	1147	0.02%	
25.677	Unidentified	1149	0.01%	
26.497	Lavandulol	1161	0.96%	
26.909	cis-Linalool oxide (pyranoid)	1167	0.02%	
27.068	Borneol	1170	0.52%	
27.240	trans-Linalool oxide (pyranoid)	1172	0.02%	
27.328	(3E,5Z)-1,3,5-Undecatriene	1173	0.04%	
27.680	Terpinen-4-ol	1179	3.77%	
27.980	Unidentified	1183	0.01%	
28.085	Cryptone	1184	0.21%	
28.447	Hexyl butyrate	1190	0.47%	
28.674	alpha-Terpineol	1193	1.2%	
30.653	Nerol	1222	0.15%	
30.936	Bornyl formate	1226	0.03%	
31.456	Hexyl 2-methylbutyrate	1234	0.04%	
31.887	Cuminal	1240	0.07%	IFRA
31.993	Carvone	1242	0.02%	IFRA
32.459	Linalyl acetate	1249	30.52%	
32.505	Geraniol	1249	0.35%	IFRA
32.675	Unidentified	1252	0.02%	
33.908	Unidentified	1270	0.02%	
34.287	Phellandral	1276	0.01%	
34.688	Lavandulyl acetate	1281	3.9%	
35.206	para-Cymen-7-ol	1289	0.03%	
37.740	Hexyl tiglate	1327	0.03%	
38.674	Unidentified	1342	0.01%	
38.858	Unidentified	1344	0.01%	
39.622	Neryl acetate	1356	0.35%	
40.723	alpha-Copaene	1373	0.01%	
40.904	Geranyl acetate	1376	0.61%	
41.239	beta-Bourbonene	1381	0.04%	
41.424	Hexyl hexanoate	1384	0.12%	
41.507	7-epi-Sesquithujene	1385	0.09%	
41.650	Unidentified	1387	0.01%	
42.467	alpha-Funebrene	1399	0.02%	
43.132	cis-alpha-Bergamotene	1410	0.04%	



Ret. Time	Component	Ret. Idx.	Conc. %	
43.525	beta-Caryophyllene	1416	4.19%	
44.387	trans-alpha-Bergamotene	1430	0.15%	
44.855	Unidentified	1438	0.01%	
45.071	Unidentified	1441	0.03%	
45.255	epi-beta-Santalene	1444	0.02%	
45.639	trans-beta-Farnesene	1450	3.75%	
45.758	alpha-Humulene	1452	0.11%	
45.900	Sesquisabinene	1454	0.03%	
46.169	Unidentified	1459	0.01%	
47.352	Germacrene D	1478	0.48%	
47.542	trans-beta-Bergamotene	1481	0.05%	
48.242	Bicyclogermacrene	1492	0.02%	
48.818	trans,trans-alpha-Farnesene	1501	0.01%	
49.019	beta-Bisabolene	1505	0.02%	
49.315	gamma-Cadinene	1510	0.08%	
49.614	Unidentified	1515	0.02%	
49.966	beta-Sesquiphellandrene	1521	0.01%	
53.368	Caryophyllene oxide	1578	0.21%	
56.822	tau-Cadinol	1639	0.04%	

Total Identified Compounds **99.72 %**

