



# Essential Oil University

## GC/MS Report

Item	Lot
<b>Lavender EO</b> <i>Lavandula angustifolia</i>	<b>8T</b>
Date	Analyst
<b>2/10/2026</b>	<b>Dr. Robert S. Pappas</b>

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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:** 8T  
**Production Method:** Steam distilled

**Sample Type:** EO - Single  
**Country of Origin:** Bulgaria  
**Analysis Date:** 2/10/2026  
**Manufacture Date:** January 2026

### 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	METHOD	RESULTS
Optical Rotation @20°C	USP[781]	-8.16
Refractive Index @20°C	USP[831]	1.46262
Specific Gravity @20°C	USP[841]	0.88154



Ret. Time	Component	Ret. Idx.	Conc. %	
3.760	2-Methyl-2-buten-2-ol	584	0.01%	
4.205	3-Methylbutanal	635	0.01%	
5.408	3-Methyl-1-butanol	727	0.01%	
6.202	Toluene	762	0%	
7.467	Butyl acetate	810	0.01%	
7.884	1-Methoxyhexane	820	0.11%	
9.039	Hex-(3Z)-enol	849	0.01%	
9.540	Hexanol	861	0.08%	
12.222	Tricyclene	920	0.01%	
12.369	alpha-Thujene	923	0.1%	
12.790	alpha-Pinene	930	0.18%	ALLERGEN
13.722	Camphene	946	0.11%	
15.007	Sabinene	969	0.03%	
15.340	1-Octen-3-ol	975	0.2%	
15.677	3-Octanone	981	0.95%	
15.944	Myrcene	986	0.75%	PROP. 65
16.314	Butyl butyrate	992	0.09%	
16.378	3-Octanol	993	0.21%	
17.034	alpha-Phellandrene	1004	0.03%	
17.181	delta-3-Carene	1006	0.07%	
17.320	Hexyl acetate	1008	0.61%	
17.694	alpha-Terpinene	1014	0.06%	ALLERGEN
17.849	ortho-Cymene	1016	0.03%	
18.180	para-Cymene	1021	0.14%	
18.485	Limonene	1026	0.35%	ALLERGEN IFRA
18.595	beta-Phellandrene	1028	0.16%	
18.685	1,8-Cineole	1029	0.66%	
18.884	cis-beta-Ocimene	1032	4.69%	
19.577	trans-beta-Ocimene	1042	2.61%	
20.389	gamma-Terpinene	1055	0.17%	
21.207	cis-Linalool oxide (furanoid)	1067	0.2%	
22.223	Terpinolene	1082	0.11%	ALLERGEN
22.288	trans-Linalool oxide (furanoid)	1083	0.09%	
22.629	Rosefuran	1088	0.01%	
23.269	Linalool	1098	30.09%	ALLERGEN IFRA
23.431	Hotrienol	1100	0.06%	
23.534	Hexyl propionate	1102	0.05%	
23.695	1-Octen-3-yl acetate	1104	1%	IFRA
23.992	Heptyl acetate	1108	0.01%	
24.523	3-Octyl acetate	1116	0.12%	



Ret. Time	Component	Ret. Idx.	Conc. %	
24.898	cis-para-Menth-2-en-1-ol	1122	0.02%	
25.130	allo-Ocimene	1125	0.24%	
25.953	Unidentified	1137	0.02%	
26.488	Camphor	1144	0.25%	ALLERGEN
26.626	Unidentified	1146	0.01%	
26.763	Nerol oxide	1148	0.01%	
27.102	Menthone	1153	0.02%	
27.592	Lavandulol	1160	1.01%	
27.745	Unidentified	1162	0.01%	
28.034	cis-Linalool oxide (pyranoid)	1167	0.03%	
28.214	Borneol	1169	0.5%	
28.355	trans-Linalool oxide (pyranoid)	1171	0.02%	
28.426	Undeca-1,3,5-triene isomer	1172	0.03%	
28.615	Unidentified	1175	0.05%	
28.818	Terpinen-4-ol	1178	4.77%	
29.230	Cryptone	1184	0.18%	
29.550	Hexyl butyrate	1188	0.49%	
29.811	alpha-Terpineol	1192	1.23%	ALLERGEN
30.865	Unidentified	1207	0.01%	
31.785	Nerol	1221	0.14%	
32.120	Bornyl formate	1226	0.04%	
32.590	Hexyl 2-methylbutyrate	1232	0.04%	
33.061	Cuminal	1239	0.06%	IFRA
33.170	Carvone	1241	0.02%	ALLERGEN IFRA
33.589	Linalyl acetate	1247	31.18%	ALLERGEN
33.645	Geraniol	1248	0.14%	ALLERGEN IFRA
35.046	Unidentified	1268	0.02%	
35.480	Phellandral	1275	0.01%	
35.831	Lavandulyl acetate	1280	4.23%	
35.910	Bornyl acetate	1281	0.1%	
36.381	para-Cymen-7-ol	1288	0.01%	
38.910	Hexyl tiglate	1326	0.03%	
39.072	Unidentified	1328	0.01%	
39.851	Unidentified	1340	0.01%	
40.041	Unidentified	1343	0.02%	
40.803	Neryl acetate	1354	0.4%	
41.970	Unidentified	1372	0.01%	
42.090	Geranyl acetate	1374	0.72%	ALLERGEN
42.503	beta-Bourbonene	1380	0.03%	
42.611	Hexyl hexanoate	1382	0.12%	



Ret. Time	Component	Ret. Idx.	Conc. %	
42.733	7-epi-Sesquithujene	1384	0.1%	
42.880	Unidentified	1386	0.01%	
43.687	alpha-Funebrene	1398	0.03%	
44.377	cis-alpha-Bergamotene	1409	0.04%	
44.735	Unidentified	1415	0.3%	
44.801	beta-Caryophyllene	1416	3.82%	ALLERGEN
45.630	trans-alpha-Bergamotene	1429	0.17%	
46.099	Unidentified	1437	0.02%	
46.332	cis-beta-Farnesene	1440	0.03%	
46.512	epi-beta-Santalene	1443	0.02%	
46.857	trans-beta-Farnesene	1449	4.06%	
47.047	alpha-Humulene	1452	0.12%	
47.166	Unidentified	1454	0.03%	
48.639	Germacrene D	1477	0.4%	
48.808	trans-beta-Bergamotene	1480	0.06%	
49.511	Bicyclgermacrene	1491	0.01%	
50.041	trans,trans-alpha-Farnesene	1500	0.01%	
50.273	beta-Bisabolene	1503	0.02%	
50.592	gamma-Cadinene	1509	0.08%	
50.883	Unidentified	1514	0.02%	
54.692	Caryophyllene oxide	1578	0.2%	
58.125	tau-Cadinol	1637	0.04%	

Total Identified Compounds **99.47 %**



TIC  
11,589,271

