



Essential Oil University

GC/MS Report

Item	Lot
Lavender (Wild Crafted) EO <i>Lavandula angustifolia</i>	5N
Date	Analyst
1/10/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Lavender (Wild Crafted) 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 (Wild Crafted) EO**Botanical Name:** Lavandula angustifolia**Lot Number:** 5N**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** France**Analysis Date:** 1/10/2025**Manufacture Date:** November 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

-9.64

1.46073

0.88275



Ret. Time	Component	Ret. Idx.	Conc. %	
3.760	2-Methyl-3-buten-2-ol	653	0.01%	
4.213	3-Methylbutanal	672	0.01%	
7.515	Butyl acetate	808	0.01%	
7.927	1-Methoxyhexane	818	0.18%	
9.579	Hexanol	859	0.1%	
12.290	Tricyclene	919	0.02%	
12.440	alpha-Thujene	921	0.08%	
12.863	alpha-Pinene	929	0.15%	
13.792	Camphene	945	0.13%	
15.080	Sabinene	968	0.03%	
15.407	1-Octen-3-ol	973	0.27%	
15.742	3-Octanone	979	1.94%	
16.024	Myrcene	984	0.86%	
16.389	Butyl butyrate	991	0.12%	
16.448	3-Octanol	992	0.43%	
17.022	cis-dehydro-Linalool oxide	1001	0.01%	
17.110	alpha-Phellandrene	1003	0.03%	
17.254	delta-3-Carene	1005	0.08%	
17.386	Hexyl acetate	1007	0.84%	
17.778	alpha-Terpinene	1013	0.04%	
17.927	ortho-Cymene	1015	0.03%	
18.257	para-Cymene	1020	0.19%	
18.567	Limonene	1025	0.4%	IFRA
18.675	beta-Phellandrene	1026	0.24%	
18.764	1,8-Cineole	1028	0.84%	
18.962	cis-beta-Ocimene	1031	2.78%	
19.656	trans-beta-Ocimene	1041	2.2%	
20.463	gamma-Terpinene	1053	0.11%	
21.277	trans-Linalool oxide (furanoid)	1065	0.24%	
21.490	Unidentified	1069	0.01%	
22.290	alpha-Terpinene	1081	0.1%	
22.359	cis-Linalool oxide (furanoid)	1082	0.14%	
22.693	Rosefuran	1087	0.02%	
22.937	Unidentified	1090	0.01%	
23.365	Linalool	1097	34.15%	IFRA
23.513	Hotrienol	1099	0.07%	
23.605	Hexyl propionate	1100	0.05%	
23.762	1-Octen-3-yl acetate	1103	1.12%	IFRA
24.057	Heptyl acetate	1107	0.03%	
24.592	3-Octyl acetate	1114	0.19%	



Ret. Time	Component	Ret. Idx.	Conc. %	
24.966	cis-para-Menth-2-en-1-ol	1120	0.02%	
25.195	allo-Ocimene	1123	0.11%	
25.964	cis-Myroxide	1134	0.02%	
26.539	Camphor	1142	0.25%	
26.666	Unidentified	1144	0.02%	
26.829	Nerol oxide	1146	0.01%	
27.652	Lavandulol	1158	1.05%	
28.086	cis-Linalool oxide (pyranoid)	1164	0.03%	
28.267	Borneol	1167	0.53%	
28.408	trans-Linalool oxide (pyranoid)	1169	0.03%	
28.498	(3E,5E)-Undeca-1,3,5-triene	1170	0.03%	
28.875	Terpinen-4-ol	1176	3.05%	
29.130	Unidentified	1179	0.02%	
29.262	Cryptone	1181	0.25%	
29.623	Hexyl butyrate	1186	0.6%	
29.865	alpha-Terpineol	1190	1.04%	
30.922	Unidentified	1205	0.01%	
31.487	trans-Carveol	1213	0.01%	
31.848	Nerol	1219	0.11%	
32.182	Bornyl formate	1223	0.04%	
32.676	Hexyl 2-methylbutanoate	1231	0.06%	
33.098	Cuminal	1237	0.08%	IFRA
33.207	Carvone	1238	0.03%	IFRA
33.691	Linalyl acetate	1245	29.44%	
33.895	Unidentified	1248	0.04%	
34.871	Unidentified	1263	0.02%	
35.132	Unidentified	1266	0.02%	
35.916	Lavandulyl acetate	1278	3.79%	
36.418	p-Cymen-7-ol	1285	0.03%	
38.992	Hexyl tiglate	1323	0.04%	
39.162	Unidentified	1326	0.01%	
40.128	alpha-Terpineol acetate	1341	0.04%	
40.891	Neryl acetate	1352	0.38%	
42.179	Geranyl acetate	1372	0.69%	
42.609	beta-Bourbonene	1378	0.05%	
42.712	Hexyl hexanoate	1380	0.16%	
42.847	7-epi-Sesquithujene	1382	0.11%	
43.802	alpha-Funebrene	1396	0.02%	
44.489	cis-alpha-Bergamotene	1407	0.04%	
44.913	beta-Caryophyllene	1414	4.2%	



Ret. Time	Component	Ret. Idx.	Conc. %	
45.541	beta-Copaene	1424	0.01%	
45.741	trans-alpha-Bergamotene	1427	0.14%	
46.211	cis-beta-Farnesene	1434	0.02%	
46.441	Duprezianene isomer	1438	0.04%	
46.623	epi-beta-Santalene	1441	0.02%	
46.977	trans-beta-Farnesene	1446	3.96%	
47.156	alpha-Humulene	1449	0.12%	
47.279	cis-beta-Farnesene	1451	0.03%	
48.748	Germacrene D	1475	0.43%	
48.925	(Z,E)-alpha-Farnesene	1478	0.04%	
50.154	(E,E)-alpha-Farnesene	1497	0.01%	
50.388	beta-Bisabolene	1501	0.02%	
50.700	gamma-Cadinene	1506	0.07%	
50.997	Elemene isomer	1511	0.01%	
52.980	Unidentified	1544	0.02%	
54.796	Caryophyllene oxide	1575	0.3%	
58.232	tau-Cadinol	1634	0.03%	

Total Identified Compounds **99.83 %**

