



Essential Oil University

GC/MS Report

Item	Lot
NOP Lavender EO Greece <i>Lavandula angustifolia</i>	7Z
Date	Analyst
8/14/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, NOP Lavender EO Greece, 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: NOP Lavender EO Greece
Botanical Name: Lavandula angustifolia
Lot Number: 7Z
Production Method: Steam distilled

Sample Type: EO - Certified Organics
Country of Origin: Greece
Analysis Date: 8/14/2025
Manufacture Date: August 2022

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

-6.49
1.46345
0.88128



Ret. Time	Component	Ret. Idx.	Conc. %	
3.552	2-Methyl-3-buten-2-ol	604	0.02%	
5.062	3-Methylbutanol	727	0.01%	
5.142	2-Methylbutanol	730	0%	
5.805	Toluene	762	0%	
6.968	Butyl acetate	809	0.02%	
7.369	1-Methoxyhexane	820	0.09%	
8.928	Hexanol	862	0.04%	
10.672	Butyl propionate	906	0.01%	
11.462	Tricyclene	920	0.02%	
11.612	alpha-Thujene	923	0.12%	
11.916	Unidentified	929	0%	
12.009	alpha-Pinene	930	0.26%	
12.893	Camphene	947	0.12%	
14.140	Sabinene	970	0.03%	
14.445	beta-Pinene	975	0.03%	
14.485	1-Octen-3-ol	976	0.13%	
14.808	3-Octanone	982	0.74%	
15.064	Myrcene	987	0.69%	
15.425	Butyl butyrate	993	0.12%	
15.490	3-Octanol	994	0.11%	
16.025	cis-Dehydrolinalool oxide	1004	0.01%	
16.107	alpha-Phellandrene	1005	0.03%	
16.247	delta-3-Carene	1007	0.06%	
16.412	Hexyl acetate	1010	0.63%	
16.758	alpha-Terpinene	1015	0.05%	
16.918	ortho-Cymene	1017	0.03%	
17.237	para-Cymene	1022	0.21%	
17.531	Limonene	1027	0.32%	IFRA
17.640	beta-Phellandrene	1028	0.05%	
17.705	1,8-Cineole	1029	0.74%	
17.952	cis-beta-Ocimene	1033	5.86%	
18.616	trans-beta-Ocimene	1043	3.28%	
19.380	gamma-Terpinene	1055	0.17%	
20.171	cis-Linalool oxide (furanoid)	1067	0.22%	
20.400	Unidentified	1071	0.02%	
21.051	Camphenilone	1081	0.01%	
21.166	Terpinolene	1083	0.12%	
21.229	trans-Linalool oxide (furanoid)	1084	0.11%	
21.495	para-Cymenene	1088	0.01%	
21.591	Rosefuran	1089	0.02%	



Ret. Time	Component	Ret. Idx.	Conc. %	
21.822	Unidentified	1093	0.02%	
22.254	Linalool	1100	27%	IFRA
22.395	Hotrienol	1102	0.07%	
22.485	Hexyl propionate	1103	0.06%	
22.654	1-Octen-3-yl acetate	1105	1.01%	IFRA
22.937	Heptyl acetate	1110	0.03%	
23.460	3-Octyl acetate	1117	0.09%	
23.790	cis-para-Menth-2-en-1-ol	1122	0.02%	
24.045	allo-Ocimene	1126	0.3%	
24.801	cis-Myroxide	1137	0.02%	
24.845	Unidentified	1137	0.01%	
25.014	trans-para-Menth-2-en-1-ol	1140	0.01%	
25.215	Unidentified	1143	0.01%	
25.336	Camphor	1144	0.34%	
25.484	para-Menth-3-ene	1147	0.01%	
25.649	Nerol oxide	1149	0.01%	
26.475	Lavandulol	1161	0.69%	
26.889	cis-Linalool oxide (pyranoid)	1167	0.02%	
27.043	Borneol	1169	0.53%	
27.222	trans-Linalool oxide (pyranoid)	1172	0.02%	
27.320	Undeca-1,3,5-triene	1173	0.01%	
27.678	Terpinen-4-ol	1179	5.65%	
28.065	Unidentified	1184	0.13%	
28.165	Unidentified	1186	0.01%	
28.424	Hexyl butyrate	1189	0.45%	
28.654	alpha-Terpineol	1193	1.58%	
28.859	Unidentified	1196	0.01%	
28.940	Oct-(2E)-enyl acetate	1197	0.01%	
29.567	Unidentified	1206	0.02%	
29.713	Octyl acetate	1208	0.02%	
30.628	Nerol	1222	0.22%	
30.906	Bornyl formate	1226	0.04%	
31.430	Hexyl 2-methylbutanoate	1234	0.03%	
31.861	Cuminal	1240	0.05%	IFRA
31.967	Carvone	1241	0.02%	IFRA
32.476	Linalyl acetate	1249	32.78%	
32.656	Unidentified	1252	0.03%	
33.638	Unidentified	1266	0.03%	
33.882	Isopulegyl acetate	1270	0.03%	
34.263	Unidentified	1275	0.01%	



Ret. Time	Component	Ret. Idx.	Conc. %
34.675	Lavandulyl acetate	1281	4.8%
35.179	para-Cymen-7-ol	1289	0.02%
37.713	Hexyl tiglate	1327	0.05%
37.884	Unidentified	1329	0.01%
38.653	Unidentified	1341	0.02%
38.831	Unidentified	1344	0.03%
39.597	Neryl acetate	1356	0.54%
40.701	alpha-Copaene	1372	0.01%
40.881	Geranyl acetate	1375	0.97%
41.214	beta-Bourbonene	1380	0.02%
41.398	Hexyl hexanoate	1383	0.07%
41.480	7-epi-Sesquithujene	1384	0.07%
42.439	alpha-Funebrene	1399	0.02%
43.108	cis-alpha-Bergamotene	1410	0.04%
43.503	beta-Caryophyllene	1416	3.59%
44.355	trans-alpha-Bergamotene	1430	0.14%
44.828	cis-beta-Farnesene	1437	0.01%
45.040	Unidentified	1441	0.03%
45.223	epi-beta-Santalene	1444	0.02%
45.616	trans-beta-Farnesene	1450	2.81%
45.729	alpha-Humulene	1452	0.08%
45.876	Sesquisabinene	1454	0.03%
46.139	Unidentified	1458	0.01%
47.323	Germacrene D	1477	0.23%
47.511	trans-beta-Bergamotene	1480	0.05%
48.207	Unidentified	1491	0.01%
48.787	trans,trans-alpha-Farnesene	1501	0.01%
48.989	beta-Bisabolene	1504	0.02%
49.284	gamma-Cadinene	1509	0.05%
49.580	Unidentified	1514	0.02%
49.683	Unidentified	1516	0.02%
50.935	trans-alpha-Bisabolene	1537	0%
52.516	Unidentified	1564	0.01%
53.337	Caryophyllene oxide	1578	0.24%
56.791	tau-Cadinol	1638	0.02%

Total Identified Compounds **99.52 %**

