



Essential Oil University

GC/MS Report

Item	Lot
NOP Lavender EO Greece <i>Lavandula angustifolia</i>	8F
Date	Analyst
3/14/2025	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: 8F
Production Method: Steam distilled

Sample Type: EO - Certified Organics
Country of Origin: Greece
Analysis Date: 3/14/2025
Manufacture Date: August 2021

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

-7.04
1.46249
0.88012



Ret. Time	Component	Ret. Idx.	Conc. %	
3.765	Vinyldimethylcarbinol	655	0.01%	
4.215	3-Methylbutanal	675	0.01%	
4.329	2-Methylbutanal	680	0.01%	
7.493	Butyl acetate	810	0.02%	
7.931	Hexyl methyl ether	821	0.09%	
9.065	Hex-(3Z)-enol	849	0.01%	
9.585	Hexanol	862	0.04%	
12.303	Tricyclene	921	0.02%	
12.453	alpha-Thujene	924	0.11%	
12.745	Unidentified	929	0.01%	
12.877	alpha-Pinene	931	0.25%	
13.808	Camphene	948	0.14%	
15.098	Sabinene	970	0.03%	
15.422	1-Octen-3-ol	976	0.19%	
15.756	3-Octanone	982	0.79%	
16.040	Myrcene	987	0.72%	
16.396	Butyl butyrate	993	0.11%	
16.465	3-Octanol	995	0.12%	
17.130	alpha-Phellandrene	1005	0.04%	
17.283	delta-3-Carene	1008	0.08%	
17.412	Hexyl acetate	1010	0.61%	
17.803	alpha-Terpinene	1016	0.07%	
17.954	ortho-Cymene	1018	0.04%	
18.287	para-Cymene	1023	0.16%	IFRA
18.588	Limonene	1027	0.31%	
18.694	beta-Phellandrene	1029	0.09%	
18.778	1,8-Cineole	1030	0.84%	
18.992	cis-beta-Ocimene	1034	6.21%	
19.681	trans-beta-Ocimene	1044	3.49%	
20.486	gamma-Terpinene	1056	0.22%	
21.293	cis-Linalool oxide (furanoid)	1068	0.23%	
22.197	Camphenilone	1082	0.01%	
22.325	Terpinolene	1084	0.15%	
22.370	trans-Linalool oxide (furanoid)	1085	0.08%	
22.724	Rosefuran	1090	0.02%	
23.367	Linalool	1100	25.96%	IFRA
23.523	Hotrienol	1102	0.06%	
23.621	Hexyl propionate	1103	0.06%	
23.789	1-Octen-3-yl acetate	1106	1.17%	IFRA
24.070	Heptyl acetate	1110	0.02%	



Ret. Time	Component	Ret. Idx.	Conc. %	
24.619	3-Octyl acetate	1118	0.1%	
24.988	cis-para-Menth-2-en-1-ol	1123	0.02%	
25.229	allo-Ocimene	1126	0.24%	
25.561	Butyl tiglate	1131	0.01%	
26.562	Camphor	1146	0.39%	
26.692	Unidentified	1147	0.02%	
26.851	Nerol oxide	1150	0.01%	
27.683	Lavandulol	1162	0.8%	
28.105	cis-Linalool oxide (pyranoid)	1168	0.02%	
28.292	Borneol	1170	0.63%	
28.440	trans-Linalool oxide (pyranoid)	1173	0.02%	
28.526	Undeca-1,3,5-triene	1174	0.05%	
28.912	Terpinen-4-ol	1179	6.19%	
29.289	Cryptone	1185	0.14%	
29.641	Hexyl butyrate	1190	0.5%	
29.892	alpha-Terpineol	1193	1.5%	
30.931	Unidentified	1208	0.02%	
31.870	Nerol	1222	0.2%	
32.200	Bornyl formate	1227	0.05%	
32.680	Hexyl 2-methylbutyrate	1234	0.04%	
33.117	Cuminaldehyde	1240	0.05%	IFRA
33.218	Carvone	1242	0.02%	IFRA
33.702	Linalyl acetate	1249	30.39%	
33.905	Unidentified	1252	0.02%	
34.893	Unidentified	1266	0.03%	
35.139	Unidentified	1270	0.04%	
35.931	Lavandulyl acetate	1282	5.05%	
36.000	Bornyl acetate	1283	0.11%	
36.436	para-Cymen-7-ol	1289	0.02%	
38.988	Hexyl tiglate	1327	0.05%	
39.150	Unidentified	1330	0.01%	
39.541	Unidentified	1336	0.01%	
39.931	Unidentified	1342	0.01%	
40.127	Unidentified	1345	0.02%	
40.887	Neryl acetate	1356	0.5%	
42.171	Geranyl acetate	1376	0.91%	
42.600	beta-Bourbonene	1382	0.02%	
42.695	Hexyl hexanoate	1384	0.08%	
42.838	7-epi-Sesquithujene	1386	0.09%	
43.794	alpha-Funebrene	1400	0.02%	



Ret. Time	Component	Ret. Idx.	Conc. %	
44.476	cis-alpha-Bergamotene	1411	0.04%	
44.835	alpha-Santalene	1417	0.27%	
44.903	trans-beta-Caryophyllene	1418	3.93%	
45.729	trans-alpha-Bergamotene	1431	0.15%	
46.199	Unidentified	1439	0.01%	
46.428	Unidentified	1443	0.04%	
46.608	epi-beta-Santalene	1445	0.02%	
46.957	trans-beta-Farnesene	1451	3.57%	
47.147	alpha-Humulene	1454	0.13%	
47.263	Sesquisabinene	1456	0.04%	
47.498	Unidentified	1460	0.02%	
48.733	Germacrene D	1479	0.31%	
48.905	trans-beta-Bergamotene	1482	0.06%	
50.138	trans,trans-alpha-Farnesene	1502	0.01%	
50.365	beta-Bisabolene	1506	0.03%	
50.687	gamma-Cadinene	1511	0.09%	
50.790	Unidentified	1513	0.01%	
50.974	Unidentified	1516	0.04%	
52.308	trans-alpha-Bisabolene	1538	0.01%	
54.774	Caryophyllene oxide	1580	0.19%	
58.208	tau-Cadinol	1640	0.03%	

Total Identified Compounds **99.69 %**

