



Essential Oil University

GC/MS Report

Item	Lot
NOP Lavender EO Greece <i>Lavandula angustifolia</i>	6F
Date	Analyst
12/6/2024	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: 6F
Production Method: Steam distilled

Sample Type: EO - Certified Organics
Country of Origin: Greece
Analysis Date: 12/6/2024
Manufacture Date: July 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

-6.92
1.46247
0.87967



Ret. Time	Component	Ret. Idx.	Conc. %	
3.743	Vinyldimethylcarbinol	718	0.01%	
4.193	3-Methylbutanal	729	0.02%	
4.305	2-Methylbutanal	732	0.01%	
5.396	3-Methylbutanol	759	0.01%	
7.471	Butyl acetate	811	0.02%	
7.911	Hexyl methyl ether	822	0.09%	
9.564	Hexanol	864	0.04%	
12.289	Tricyclene	923	0.02%	
12.439	alpha-Thujene	926	0.11%	
12.727	2,7-Dimethyloxepine	931	0.01%	
12.863	alpha-Pinene	933	0.24%	
13.794	Camphene	950	0.12%	
15.085	Sabinene	972	0.02%	
15.409	1-Octen-3-ol	978	0.15%	
15.745	3-Octanone	984	0.71%	
16.029	Myrcene	989	0.84%	
16.386	Butyl butyrate	996	0.11%	
16.453	3-Octanol	997	0.11%	
17.026	cis-Dehydrolinalool oxide	1006	0.01%	
17.119	alpha-Phellandrene	1007	0.04%	
17.273	delta-3-Carene	1010	0.06%	
17.400	Hexyl acetate	1012	0.6%	
17.792	alpha-Terpinene	1017	0.07%	
17.945	ortho-Cymene	1020	0.03%	
18.276	para-Cymene	1025	0.12%	
18.581	Limonene	1029	0.31%	IFRA
18.687	beta-Phellandrene	1031	0.08%	
18.772	1,8-Cineole	1032	0.69%	
18.993	cis-beta-Ocimene	1036	6.93%	
19.678	trans-beta-Ocimene	1046	3.91%	
20.477	gamma-Terpinene	1058	0.23%	
21.287	cis-Linalool oxide (furanoid)	1070	0.19%	
22.189	Camphenilone	1084	0.01%	
22.317	Terpinolene	1086	0.15%	
22.355	trans-Linalool oxide (furanoid)	1086	0.09%	
22.721	Unidentified	1092	0.01%	
23.382	Linalool	1102	26.14%	IFRA
23.529	Hotrienol	1104	0.08%	
23.622	Hexyl propionate	1105	0.06%	
23.787	1-Octen-3-yl acetate	1108	1.02%	IFRA



Ret. Time	Component	Ret. Idx.	Conc. %	
24.071	Heptyl acetate	1112	0.02%	
24.618	3-Octyl acetate	1119	0.09%	
24.988	cis-para-Menth-2-en-1-ol	1125	0.02%	
25.225	allo-Ocimene	1128	0.17%	
25.556	Butyl tiglate	1133	0.01%	
26.562	Camphor	1147	0.33%	
26.690	Unidentified	1149	0.01%	
26.850	Nerol oxide	1152	0.01%	
27.682	Lavandulol	1163	0.68%	
28.111	cis-Linalool oxide (pyranoid)	1170	0.02%	
28.295	Borneol	1172	0.52%	
28.443	trans-Linalool oxide (pyranoid)	1174	0.02%	
28.529	Undeca-1,3,5-triene	1176	0.06%	
28.921	Terpinen-4-ol	1181	5.7%	
29.171	Unidentified	1185	0.02%	
29.289	Cryptone + Unidentified	1187	0.13%	
29.643	Hexyl butyrate	1192	0.45%	
29.896	alpha-Terpineol	1195	1.56%	
30.938	Octyl acetate	1210	0.02%	
31.873	Nerol	1224	0.23%	
32.202	Bornyl formate	1229	0.04%	
32.687	Hexyl 2-methylbutyrate	1236	0.03%	
33.121	Cuminal	1242	0.04%	IFRA
33.227	Carvone	1244	0.02%	IFRA
33.727	Linalyl acetate	1251	31.2%	
33.920	Piperitone	1254	0.02%	
35.144	Isopulegyl acetate	1272	0.03%	
35.551	Phellandral	1278	0.01%	
35.938	Lavandulyl acetate	1283	4.84%	
36.441	para-Cymen-7-ol	1291	0.01%	
37.146	Tridecane	1301	0.01%	
38.998	Hexyl tiglate	1329	0.04%	
39.540	Unidentified	1337	0.01%	
40.131	alpha-Terpinyl acetate	1346	0.02%	
40.894	Neryl acetate	1358	0.54%	
42.182	Geranyl acetate	1377	1%	
42.610	beta-Bourbonene	1384	0.02%	
42.709	Hexyl hexanoate	1385	0.08%	
42.846	7-epi-Sesquithujene	1387	0.09%	
43.802	alpha-Funebrene	1402	0.02%	



Ret. Time	Component	Ret. Idx.	Conc. %	
44.489	cis-alpha-Bergamotene	1413	0.04%	
44.916	beta-Caryophyllene	1420	3.79%	
45.740	trans-alpha-Bergamotene	1433	0.13%	
46.212	Unidentified	1440	0.01%	
46.438	cis-beta-Farnesene	1444	0.03%	
46.621	epi-beta-Santalene	1447	0.02%	
46.971	trans-beta-Farnesene	1452	3.6%	
47.156	alpha-Humulene	1455	0.11%	
47.275	Sesquisabinene	1457	0.03%	
47.507	Unidentified	1461	0.01%	
48.746	Germacrene D	1481	0.31%	
48.917	trans-beta-Bergamotene	1484	0.05%	
49.632	Bicyclogermacrene	1495	0.02%	
50.146	trans,trans-alpha-Farnesene	1503	0.02%	
50.378	beta-Bisabolene	1507	0.03%	
50.695	gamma-Cadinene	1513	0.06%	
50.987	Unidentified	1517	0.02%	
52.329	trans-alpha-Bisabolene	1540	0.01%	
54.786	Caryophyllene oxide	1581	0.12%	
58.213	epi-alpha-Cadinol	1641	0.02%	

Total Identified Compounds **99.82 %**

