



# Essential Oil University

## GC/MS Report

Item	Lot
<b>Lavandin Grosso EO</b> <i>Lavandula hybrida</i>	<b>9AK</b>
Date	Analyst
<b>5/21/2025</b>	<b>Dr. Robert S. Pappas</b>

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**The analysis of this batch sample, Lavandin (Grosso) EO, meets the expected chemical profile for authentic essential oil of *Lavandula hybrida*. 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:** Lavandin Grosso EO  
**Botanical Name:** Lavandula hybrida  
**Lot Number:** 9AK  
**Production Method:** Steam distilled

**Sample Type:** EO - Single  
**Country of Origin:** France  
**Analysis Date:** 5/21/2025  
**Manufacture Date:** October 2024

## GC/MS

**Inst. ID:** Shimadzu GCMS-QP2010Ultra  
**Injection Type:** Split  
**Split Ratio:** 24.4

**Column Type:** ZB-5  
**Injection Volume:** 0.1  $\mu$ L  
**Temperature Program:** 2C/min

## Physical Data

ANALYSIS	METHOD	RESULTS
Optical Rotation @20°C	USP[781]	-4.32
Refractive Index @20°C	USP[831]	1.46097
Specific Gravity @20°C	USP[841]	0.89834



Ret. Time	Component	Ret. Idx.	Conc. %	
4.018	3-Methyl butanal	645	0.01%	
4.550	2-Ethyl furan	697	0.01%	
5.897	Toluene	761	0%	
7.499	1-Methoxyhexane	820	0.03%	
8.565	Hex-(3Z)-enol	848	0.02%	
9.067	Hexanol	861	0.06%	
11.638	Tricyclene	920	0.02%	
11.790	alpha-Thujene	922	0.06%	
12.190	alpha-Pinene	930	0.38%	
13.080	Camphene	946	0.28%	
14.342	Sabinene	969	0.12%	
14.636	beta-Pinene	974	0.39%	
14.680	1-Octen-3-ol	975	0.1%	
15.014	3-Octanone	981	0.11%	
15.276	Myrcene	986	0.58%	
15.335	Unidentified	987	0.02%	
15.641	Butyl butyrate	992	0.02%	
15.708	3-Octanol	994	0.01%	
16.139	Octanal	1001	0.01%	
16.238	cis-Dehydrolinalool oxide	1003	0.01%	
16.326	alpha-Phellandrene	1004	0.03%	
16.471	delta-3-Carene	1006	0.07%	
16.634	Hexyl acetate	1009	0.13%	
16.984	alpha-Terpinene	1014	0.04%	
17.143	ortho-Cymene	1017	0.02%	
17.459	para-Cymene	1022	0.11%	
17.755	Limonene	1026	0.73%	IFRA
17.850	beta-Phellandrene	1027	0.06%	
17.927	1,8-Cineole	1029	6.43%	
18.151	cis-beta-Ocimene	1032	1.22%	
18.834	trans-beta-Ocimene	1043	0.51%	
19.620	gamma-Terpinene	1055	0.1%	
20.401	trans-Sabinene hydrate	1067	0.32%	
20.465	cis-Linalool oxide (furanoid)	1068	0.02%	
21.425	Terpinolene	1082	0.27%	
21.475	trans-Linalool (furanoid)	1083	0.07%	
22.462	Linalool	1098	26.67%	IFRA
22.625	Hotrienol	1101	0.01%	
22.729	Hexyl propionate	1102	0.05%	
22.899	1-Octen-3-yl acetate	1105	0.25%	IFRA



Ret. Time	Component	Ret. Idx.	Conc. %	
23.714	Unidentified	1116	0.01%	
24.051	cis-para-Menth-2-en-1-ol	1121	0.01%	
24.216	alpha-Campholenal	1124	0.02%	
24.317	allo-Ocimene	1125	0.04%	
24.985	Nopinone	1135	0.01%	
25.162	trans-Pinocarveol	1137	0.02%	
25.604	Camphor	1144	7.1%	
26.136	Camphene hydrate	1152	0.01%	
26.741	Lavandulol	1160	0.34%	
27.200	delta-Terpineol	1167	0.08%	
27.307	Borneol	1169	3.17%	
27.465	trans-Linalool oxide (pyranoid)	1171	0.02%	
27.911	Terpinen-4-ol	1177	2.71%	
28.132	Unidentified	1181	0.01%	
28.326	Cryptone	1183	0.08%	
28.385	Unidentified	1184	0.01%	
28.686	Hexyl butyrate	1189	0.4%	
28.905	alpha-Terpineol	1192	0.81%	
29.443	Unidentified	1200	0.01%	
29.705	Unidentified	1203	0.01%	
29.810	Unidentified	1205	0%	
29.990	Octyl acetate	1208	0.03%	
30.904	Nerol	1221	0.06%	
31.010	Unidentified	1223	0.01%	
31.175	Bornyl formate	1225	0.06%	
31.702	Hexyl-2-methylbutyrate	1233	0.08%	
32.129	Hexyl-3-methylbutyrate	1239	0.23%	
32.245	Carvone	1241	0.02%	IFRA
32.729	Linalyl acetate	1248	35.16%	
32.930	Unidentified	1251	0.02%	
34.154	Unidentified	1269	0.01%	
34.939	Lavandulyl acetate	1280	2.61%	
37.989	Hexyl tiglate	1326	0.19%	
38.162	Unidentified	1329	0.03%	
38.926	Unidentified	1340	0.04%	
39.120	Unidentified	1343	0.03%	
39.883	Neryl acetate	1355	0.19%	
40.863	Unidentified	1370	0.01%	
40.994	Unidentified	1372	0%	
41.164	Geranyl acetate	1374	0.46%	



Ret. Time	Component	Ret. Idx.	Conc. %	
41.260	Unidentified	1376	0.03%	
41.525	beta-Bourbonene	1380	0.06%	
41.685	Hexyl hexanoate	1382	0.02%	
41.786	7-epi-Sesquithujene	1384	0.09%	
41.907	Unidentified	1386	0.02%	
42.742	alpha-Funebrene	1398	0.08%	
43.026	alpha-Gurjunene	1403	0.03%	
43.414	cis-alpha-Bergamotene	1409	0.03%	
43.608	Lavandulyl isobutyrate	1412	0.07%	
43.802	trans-beta-Caryophyllene	1415	1.78%	
44.451	beta-Copaene	1426	0.01%	
44.645	Coumarin	1429	0.08%	IFRA
44.660	trans-alpha-Bergamotene	1429	0.16%	
45.136	cis-beta-Farnesene	1437	0.05%	
45.354	Unidentified	1440	0.01%	
45.447	Unidentified	1442	0.01%	
45.911	trans--beta-Farnesene	1449	1.15%	
46.039	alpha-Humulene	1451	0.05%	
46.240	Neryl isobutyrate	1454	0.11%	
46.462	cis-Muurolo-4(14),5-diene	1458	0.03%	
47.069	Dauca-5,8-diene	1468	0.08%	
47.275	Unidentified	1471	0.01%	
47.641	Germacrene D	1477	0.78%	
47.826	trans-beta-Bergamotene	1480	0.04%	
48.522	Bicyclogermacrene	1491	0.03%	
48.725	Unidentified	1494	0.01%	
48.854	Isodaucene	1496	0.05%	
48.953	Lavandulyl isovalerate	1498	0.38%	
49.100	trans,trans-alpha-Farnesene	1500	0.1%	
49.301	beta-Bisabolene	1504	0.21%	
49.602	gamma-Cadinene	1509	0.29%	
49.920	delta-Cadinene	1514	0.02%	
50.015	cis-Calamenene	1516	0.02%	
50.252	beta-Sesquiphellandrene	1520	0.17%	
51.247	trans-alpha-Bisabolene	1536	0.01%	
53.354	Unidentified	1572	0.01%	
53.657	Caryophyllene oxide	1577	0.09%	
55.600	1,10-di-epi-Cubenol	1610	0.02%	
57.119	alpha-Cadinol	1637	0.13%	
59.557	alpha-Bisabolol	1681	0.25%	IFRA



Ret. Time	Component	Ret. Idx.	Conc. %
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Total Identified Compounds **99.71 %**

