



Essential Oil University

GC/MS Report

Item	Lot
Clary Sage EO <i>Salvia sclarea</i>	5L
Date	Analyst
8/4/2025	Dr. Robert S. Pappas

© Copyright 2025 by Essential Oil University. All rights reserved. Any publishing, copying, use, dissemination, or distribution of this report, including online, without the express written permission of Essential Oil University is strictly prohibited.

The analysis of this batch sample, Clary Sage EO, meets the expected chemical profile for authentic essential oil of *Salvia sclarea*. 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:** Clary Sage EO**Botanical Name:** Salvia sclarea**Lot Number:** 5L**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** France**Analysis Date:** 8/4/2025**Manufacture Date:** December 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

-15.52

1.45736

0.90034



Ret. Time	Component	Ret. Idx.	Conc. %	
4.485	2-Ethylfuran	698	0%	
5.056	3-Methylbutanol	726	0.01%	
5.132	2-Methylbutanol	730	0%	
5.800	Toluene	762	0%	
8.371	Hex-(2E)-enal	847	0.02%	IFRA
8.415	Unidentified	848	0.01%	
8.788	Hex-(2E)-enol	858	0.03%	
8.924	Hexanol	862	0.02%	
11.988	alpha-Pinene	930	0.09%	
12.872	Camphene	946	0.02%	
14.118	Sabinene	969	0.03%	
14.412	beta-Pinene	975	0.14%	
14.460	1-Octen-3-ol	975	0.03%	
15.043	Myrcene	986	0.46%	
15.999	cis-Dehydrolinalool oxide	1003	0.03%	
17.211	para-Cymene	1022	0.02%	
17.505	Limonene	1026	0.49%	IFRA
17.680	1,8-Cineole	1029	0%	
17.909	cis-beta-Ocimene	1033	0.2%	
18.439	Unidentified	1041	0.01%	
18.586	trans-beta-Ocimene	1043	0.35%	
19.356	gamma-Terpinene	1055	0.02%	
20.147	cis-Linalool oxide (furanoid)	1067	0.01%	
21.139	Terpinolene	1082	0.06%	
21.220	Unidentified	1084	0.01%	
22.144	Linalool	1098	10.7%	IFRA
22.334	Unidentified	1101	0.03%	
22.461	Nonanal	1103	0.02%	
25.618	Unidentified	1149	0.01%	
25.904	Unidentified	1153	0.01%	
27.008	Borneol	1169	0.03%	
28.381	Methyl salicylate	1189	0.02%	
28.622	alpha-Terpineol	1192	0.7%	
29.764	Linalyl formate	1209	0.64%	
30.611	Nerol	1221	0.1%	
32.502	Linalyl acetate	1249	76.02%	
32.565	Geraniol	1250	0.04%	IFRA
34.140	Neryl formate	1273	0.02%	
34.661	Bornyl acetate	1281	0.02%	
35.069	Thymol	1287	0.03%	



Ret. Time	Component	Ret. Idx.	Conc. %	
35.602	Geranyl formate	1295	0.06%	
35.809	Unidentified	1298	0.01%	
37.853	Unidentified	1329	0.11%	
38.627	Unidentified	1341	0.03%	
38.811	Unidentified	1344	0.08%	
39.091	Eugenol	1348	0.01%	IFRA
39.576	Neryl acetate	1355	0.28%	
40.675	alpha-Copaene	1372	0.63%	
40.858	Geranyl acetate	1375	0.51%	
41.188	beta-Bourbonene	1380	0.12%	
41.467	beta-Cubebene	1384	0.18%	
41.572	beta-Elemene	1386	0.15%	
42.327	Unidentified	1397	0.02%	
43.467	beta-Caryophyllene	1415	1.57%	
44.115	beta-Copaene	1426	0.05%	
44.337	trans-alpha-Bergamotene	1429	0.02%	
45.010	Unidentified	1440	0.02%	
45.425	Isogermacrene D	1447	0.01%	
45.585	trans-beta-Farnesene	1449	0.04%	
45.705	alpha-Humulene	1451	0.07%	
47.311	Germacrene D	1477	3.76%	
47.525	Unidentified	1481	0.04%	
47.707	Eremophilene	1483	0.21%	
47.936	Unidentified	1487	0.01%	
48.188	Bicyclogermacrene	1491	0.56%	
48.388	Unidentified	1494	0.02%	
48.765	trans,trans-alpha-Farnesene	1500	0.07%	
49.572	delta-Cadinene	1514	0.13%	
49.809	Unidentified	1518	0.01%	
51.344	Unidentified	1544	0.01%	
52.496	Unidentified	1563	0.01%	
53.008	Spathulenol	1572	0.12%	
53.316	Caryophyllene oxide	1577	0.09%	
54.587	Unidentified	1599	0.08%	
55.283	Unidentified	1611	0.01%	
55.776	Unidentified	1620	0.02%	
56.609	Unidentified	1635	0.06%	
56.850	Unidentified	1639	0.01%	
56.900	Unidentified	1640	0.04%	
57.025	Unidentified	1642	0.04%	



Ret. Time	Component	Ret. Idx.	Conc. %	
57.489	alpha-Eudesmol	1650	0.05%	
58.565	Unidentified	1670	0.01%	
69.661	Sclareoloxide	1879	0.05%	
71.139	Unidentified	1909	0.03%	
71.555	Unidentified	1917	0.02%	
71.866	Unidentified	1924	0.04%	
85.051	Sclareol	2209	0.11%	IFRA

Total Identified Compounds **99.22 %**

