Essential Oil University

GC/MS Report

Item	Lot
Clary Sage EO, France *Salvia sclarea*	**7G**
Date	Analyst
1/17/2025	**Dr. Robert S. Pappas**

The analysis of this batch sample, Clary Sage EO, France, 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, France
Botanical Name: Salvia sclarea
Lot Number: 7G
Production Method: Steam distilled
Sample Type: EO - Single
Country of Origin: France
Analysis Date: 1/17/2025
Manufacture Date: December 2024

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

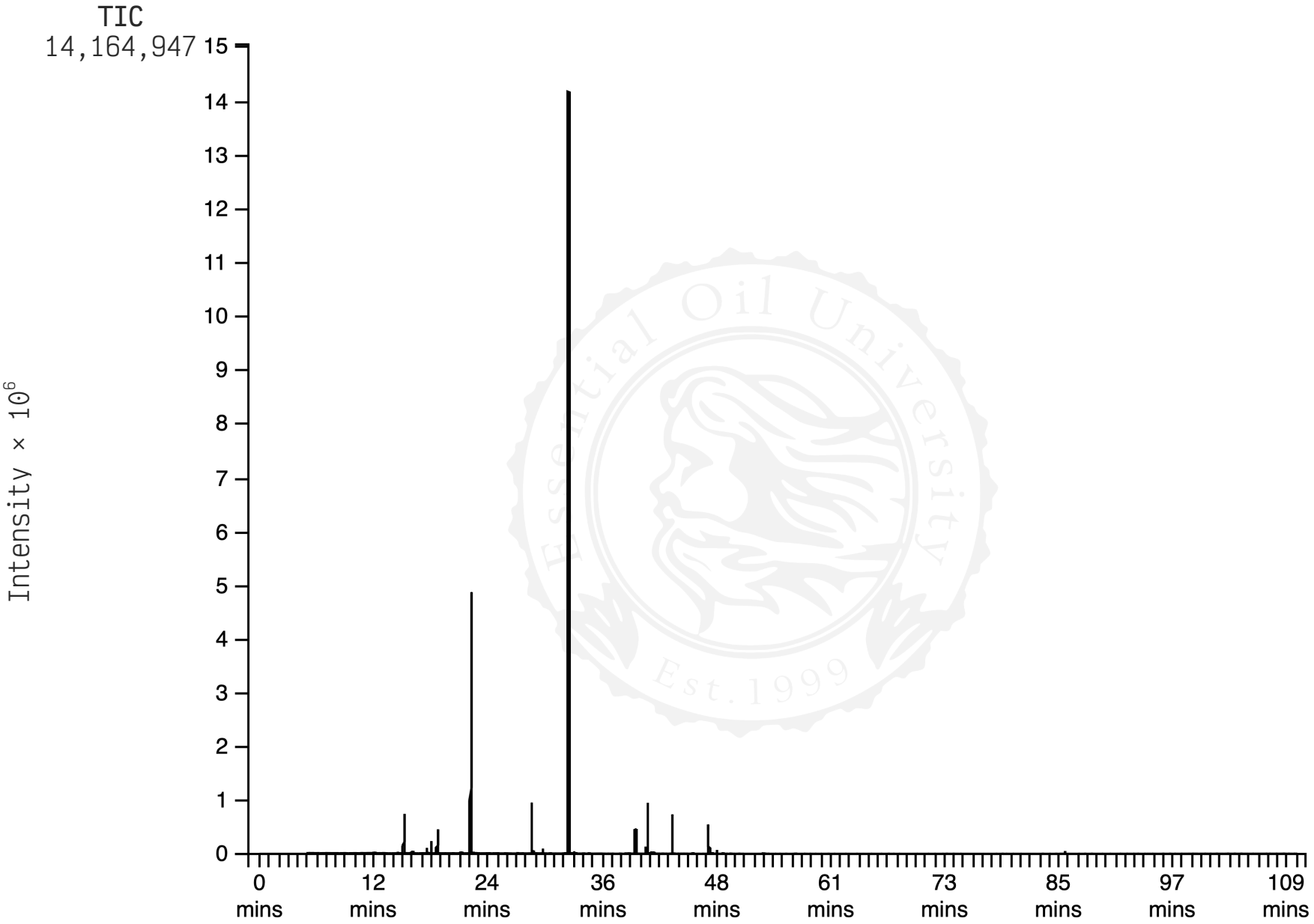
Physical Data

ANALYSIS	METHOD	RESULTS
Optical Rotation @20°C	USP[781]	-13.60
Refractive Index @20°C	USP[831]	1.45688
Specific Gravity @20°C	USP[841]	0.89725

Ret. Time	Component	Ret. Idx.	Conc. %	
4.015	3-Methylbutanal	645	0.01%	
12.191	alpha-Pinene	930	0.05%	
13.082	Camphene	946	0.01%	
14.343	Sabinene	969	0.02%	
14.638	beta-Pinene	974	0.06%	
14.720	1-Octen-3-ol	976	0%	
14.954	Unidentified	980	0.01%	
15.278	Myrcene	986	1.65%	
16.180	Pseudolimonene	1002	0.08%	
16.230	cis-Dehydrolinalool oxide	1003	0.01%	
16.323	alpha-Phellandrene	1004	0.01%	
16.994	alpha-Terpinene	1014	0.02%	
17.466	para-Cymene	1022	0.01%	
17.756	Limonene	1026	0.24%	IFRA
17.855	beta-Phellandrene	1028	0.02%	
17.915	1,8-Cineole	1028	0.04%	
18.153	cis-beta-Ocimene	1032	0.54%	
18.835	trans-beta-Ocimene	1043	1.07%	
19.622	gamma-Terpinene	1055	0.02%	
20.413	cis-Linalool oxide (furanoid)	1067	0.01%	
21.429	Terpinolene	1082	0.08%	
22.417	Linalool	1097	14.63%	IFRA
24.318	allo-Ocimene	1125	0.05%	
25.153	allo-Ocimene isomer	1137	0.01%	
25.583	Camphor	1144	0.02%	
26.049	Unidentified	1150	0.01%	
27.203	delta-Terpineol	1167	0.01%	
27.293	Borneol	1168	0.02%	
27.907	Unidentified	1177	0.01%	
28.915	alpha-Terpineol	1192	2.64%	
30.065	Linalyl formate	1209	0.25%	
30.920	Nerol	1221	0.04%	
32.362	Unidentified	1242	0.06%	
32.772	Linalyl acetate	1248	68.76%	
33.432	Unidentified	1258	0.1%	
34.451	Neryl formate	1273	0.01%	
34.876	Unidentified	1279	0.04%	
34.966	Bornyl acetate	1281	0.02%	
35.910	Geranyl formate	1294	0.03%	
38.157	Unidentified	1328	0.04%	

Ret. Time	Component	Ret. Idx.	Conc. %	
38.930	Unidentified	1340	0.02%	
39.128	Unidentified	1343	0.05%	
39.883	Neryl acetate	1355	1.29%	
41.011	alpha-Copaene	1372	0.39%	
41.164	Geranyl acetate	1374	2.75%	
41.524	beta-Bourbonene	1380	0.06%	
41.797	beta-Cubebene	1384	0.09%	
41.904	beta-Elemene	1386	0.07%	
42.854	Unidentified	1400	0.01%	
43.807	beta-Caryophyllene	1415	2.17%	
44.453	beta-Copaene	1426	0.02%	
46.048	alpha-Humulene	1451	0.03%	
47.643	Germacrene D	1477	1.61%	
47.832	Unidentified	1480	0.02%	
48.048	Valencene	1483	0.11%	
48.528	Bicyclogermacrene	1491	0.21%	
48.745	Unidentified	1494	0.01%	
49.098	trans,trans-alpha-Farnesene	1500	0.03%	
49.914	delta-Cadinene	1514	0.07%	
50.159	Unidentified	1518	0%	
53.349	Spathulenol	1572	0.04%	
53.657	Caryophyllene oxide	1577	0.03%	
54.933	Unidentified	1598	0.02%	
56.947	Unidentified	1634	0.01%	
57.805	beta-Eudesmol	1650	0.01%	
70.038	Sclareoloxide	1879	0.01%	
85.436	Sclareol	2209	0.19%	IFRA

Total Identified Compounds **99.62 %**


TIC
14,164,947
Intensity × 10^6
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
0 mins
12 mins
24 mins
36 mins
48 mins
61 mins
73 mins
85 mins
97 mins
109 mins