Essential Oil University

GC/MS Report

Item	Lot
Clary Sage EO, France *Salvia sclarea*	**0M**
Date	Analyst
12/6/2024	**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: 0M
Production Method: Steam distilled
Sample Type: EO - Single
Country of Origin: France
Analysis Date: 12/6/2024
Manufacture Date: August 2023

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

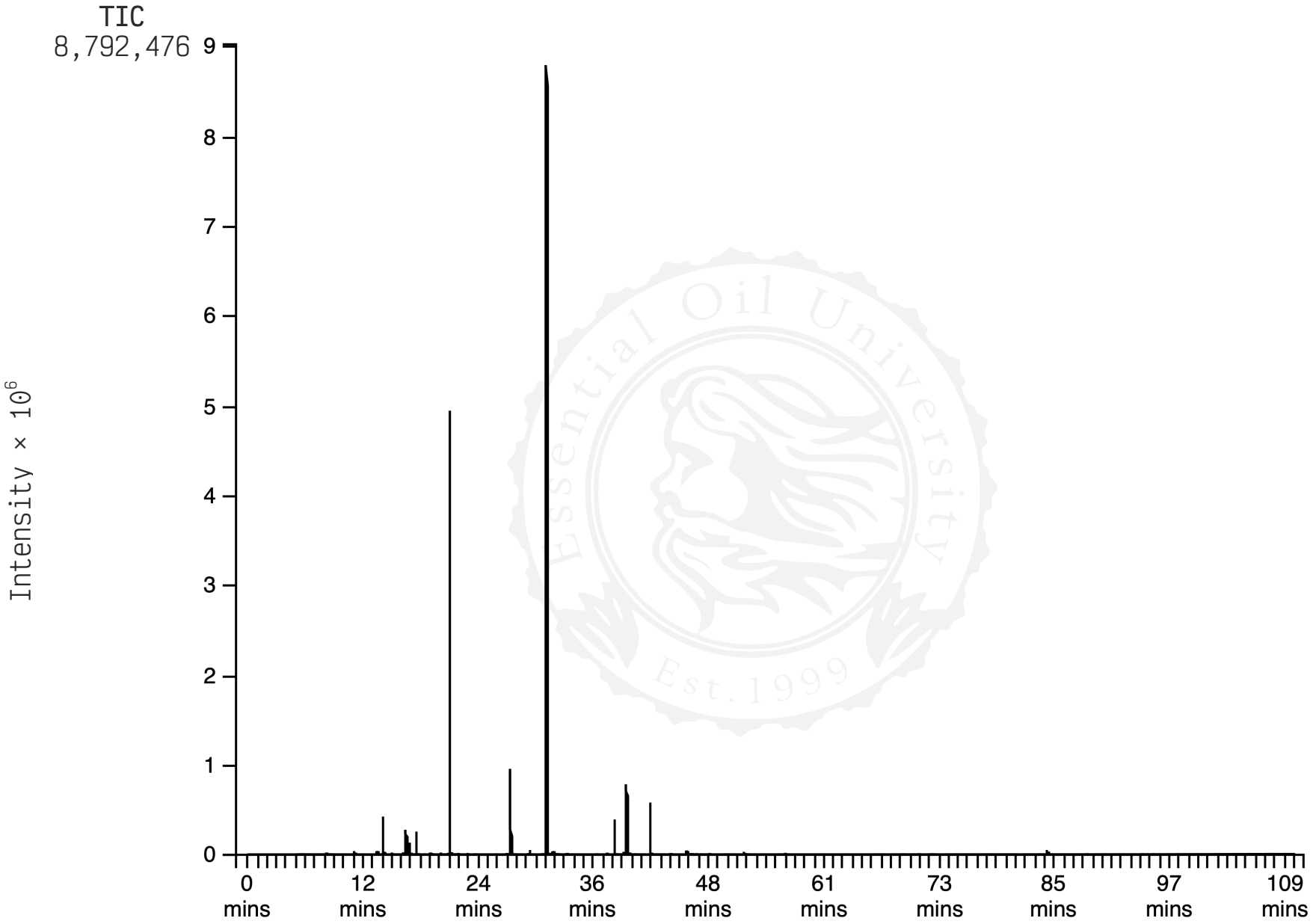
Physical Data

ANALYSIS	METHOD	RESULTS
Optical Rotation @20°C	USP[781]	-10.92
Refractive Index @20°C	USP[831]	1.45905
Specific Gravity @20°C	USP[841]	0.89486

Ret. Time	Component	Ret. Idx.	Conc. %	
8.247	Hex-(2E)-enol	845	0.04%	
8.367	1-Hexanol	848	0.03%	
11.269	alpha-Pinene	917	0.12%	
13.633	beta-Pinene	960	0.12%	
13.953	Camphene	966	0.02%	
14.278	Myrcene	972	1.54%	
15.144	Pseudolimonene	987	0.06%	
15.221	cis-Dehydrolinalool oxide	989	0.02%	
16.402	para-Cymene	1009	0.08%	
16.675	Limonene	1013	1.02%	IFRA
16.839	1,8-Cineole	1015	0.01%	
17.096	cis-beta-Ocimene	1019	0.48%	
17.755	trans-beta-Ocimene	1030	0.95%	
18.511	gamma-Terpinene	1041	0.01%	
19.290	cis-Linalool oxide (furanoid)	1053	0.06%	
20.254	Terpinolene	1068	0.06%	
20.335	trans-Linalool oxide (furanoid)	1069	0.09%	
21.288	Linalool	1084	25.16%	IFRA
21.465	Hotrienol	1087	0.04%	
23.111	allo-Ocimene	1111	0.05%	
24.702	Nerol oxide	1135	0.01%	
26.639	Terpinen-4-ol	1163	0.02%	
27.105	para-Cymen-8-ol	1170	0.01%	
27.213	Unidentified	1171	0.01%	
27.651	alpha-Terpineol	1178	4.09%	
28.786	Linalyl formate	1194	0.03%	
29.624	Nerol	1207	0.21%	
30.955	Unidentified	1226	0.01%	
31.056	Unidentified	1228	0.04%	
31.438	Linalyl acetate	1233	56.41%	
32.124	Unidentified	1243	0.13%	
33.154	Neryl formate	1259	0.01%	
33.540	Unidentified	1264	0.01%	
34.612	Geranyl formate	1280	0.03%	
36.873	Unidentified	1314	0.02%	
37.628	Unidentified	1325	0.02%	
37.749	delta-Elemene	1327	0.03%	
37.830	Unidentified	1328	0.02%	
38.567	Neryl acetate	1340	1.7%	
39.578	alpha-Copaene	1355	0.12%	

Ret. Time	Component	Ret. Idx.	Conc. %	
39.852	Geranyl acetate	1359	3.52%	
40.078	beta-Bourbonene	1363	0.05%	
40.378	beta-Cubebene	1367	0.01%	
40.493	beta-Elemene	1369	0.02%	
41.413	Unidentified	1383	0.01%	
42.355	beta-Caryophyllene	1397	2.72%	
44.595	alpha-Humulene	1433	0.04%	
46.198	Germacrene D	1459	0.15%	
46.608	Unidentified	1465	0.01%	
47.088	Bicyclogermacrene	1473	0.02%	
48.489	delta-Cadinene	1495	0.04%	
48.687	Unidentified	1499	0.02%	
49.563	Unidentified	1513	0.01%	
51.928	Unidentified	1553	0.01%	
52.219	Caryophyllene oxide	1558	0.14%	
56.449	Unidentified	1631	0.04%	
68.584	Sclareoloxide	1856	0.05%	
84.056	Sclareol	2182	0.29%	IFRA

Total Identified Compounds **99.68 %**


TIC
8,792,476
Intensity × 10^6
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