



Essential Oil University

GC/MS Report

Item	Lot
Sage EO Dalmatian <i>Salvia officinalis</i>	5S
Date	Analyst
7/3/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Sage EO Dalmatian, meets the expected chemical profile for authentic essential oil of *Salvia officinalis*. 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: Sage EO Dalmatian
Botanical Name: Salvia officinalis
Lot Number: 5S
Production Method: Steam distilled

Sample Type: EO - Single
Country of Origin: Spain
Analysis Date: 7/3/2025
Manufacture Date: May 2025

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

+3.92
1.46304
0.91926



Ret. Time	Component	Ret. Idx.	Conc. %	
3.970	3-Methylbutanal	647	0.02%	
4.080	2-Methylbutanal	658	0.01%	
8.292	cis-Salvene	845	0.41%	
8.642	trans-Salvene	854	0.07%	
11.354	Hashishene	918	0.06%	
11.469	Tricyclene	920	0.16%	
11.618	alpha-Thujene	923	0.08%	
12.020	alpha-Pinene	930	3.53%	
12.808	alpha-Fenchene	945	0.05%	
12.909	Camphene	947	5.04%	
13.099	Thuja-2,4(10)diene	950	0.02%	
14.148	Sabinene	970	0.05%	
14.443	beta-Pinene	975	1.29%	
15.070	Myrcene	987	1.03%	
15.508	3-Octanol	995	0.03%	
15.960	Pseudolimonene	1003	0.01%	
16.033	Unidentified	1004	0.01%	
16.113	alpha-Phellandrene	1005	0.08%	
16.252	delta-3-Carene	1007	0.01%	
16.764	alpha-Terpinene	1015	0.29%	
17.245	para-Cymene	1022	1.35%	
17.416	Unidentified	1025	0.02%	
17.547	Limonene	1027	2.41%	IFRA
17.655	beta-Phellandrene	1029	0.1%	
17.736	1,8-Cineole	1030	10.2%	
17.937	cis-beta-Ocimene	1033	0.07%	
18.613	trans-beta-Ocimene	1043	0.01%	
19.387	gamma-Terpinene	1055	0.34%	
20.174	trans-Sabinene hydrate	1067	0.05%	
21.174	Terpinolene	1083	0.16%	
21.390	Fenchone	1086	0.01%	
21.501	para-Cymenene	1088	0.11%	
22.232	Linalool	1099	0.54%	IFRA
22.721	alpha-Thujone	1106	33.22%	IFRA
23.395	beta-Thujone	1116	4.72%	IFRA
23.651	Unidentified	1120	0.05%	
23.810	cis-para-Menth-2-en-1-ol	1122	0.01%	
23.976	alpha-Campholenal	1125	0.04%	
24.782	Isothujol	1136	0.05%	
24.899	trans-Sabinol	1138	0.08%	



Ret. Time	Component	Ret. Idx.	Conc. %	
25.163	Unidentified	1142	0.01%	
25.432	Camphor	1146	18.23%	
25.706	Neothujol	1150	0.07%	
25.896	trans-beta-Terpineol	1153	0.04%	
26.265	trans-Pinocamphone	1158	0.03%	
26.461	Isoborneol	1161	0.02%	
26.844	Thujol	1166	0.31%	
26.970	delta-Terpineol	1168	0.03%	
27.061	Borneol	1170	1.92%	
27.511	Unidentified	1176	0.03%	
27.650	Terpinen-4-ol	1178	0.42%	
28.083	para-Cymen-8-ol	1184	0.07%	
28.190	Unidentified	1186	0.02%	
28.465	Unidentified	1190	0.03%	
28.654	alpha-Terpineol	1193	0.18%	
29.021	Unidentified	1198	0.09%	
29.187	Unidentified	1201	0.02%	
30.267	trans-Carveol	1216	0.03%	
30.632	Unidentified	1222	0.01%	
31.173	Unidentified	1230	0.01%	
31.418	cis-3-Hexenyl-isovalerate	1233	0.01%	IFRA
31.859	Unidentified	1240	0.01%	
32.032	3-Methyl-hex-(2E)-enyl butyrate	1242	0.02%	
32.357	Linalyl acetate	1247	0.04%	
32.616	Unidentified	1251	0.01%	
32.785	Carvenone	1253	0.01%	
33.547	Unidentified	1265	0.02%	
33.685	cis-Ocimenyl acetate	1267	0.03%	
34.509	Thymol	1279	0.01%	
34.689	Bornyl acetate	1281	1.44%	
34.842	Isobornyl acetate	1284	0.04%	
34.980	trans-Sabinyol acetate	1286	0.22%	
35.115	Unidentified	1288	0.08%	
35.629	Carvacrol	1295	0.05%	
35.879	Unidentified	1299	0.02%	
36.354	Unidentified	1306	0.01%	
37.898	Unidentified	1330	0.02%	
38.567	Unidentified	1340	0.01%	
38.840	Unidentified	1344	0.01%	
38.929	Unidentified	1345	0.06%	



Ret. Time	Component	Ret. Idx.	Conc. %	
39.116	Eugenol	1348	0.01%	IFRA
39.597	Unidentified	1356	0.02%	
40.705	alpha-Copaene	1373	0.03%	
40.884	Geranyl acetate	1375	0.01%	
42.549	cis-beta-Caryophyllene	1401	0.05%	
43.503	beta-Caryophyllene	1416	3.13%	
44.013	Unidentified	1424	0.02%	
44.346	Unidentified	1430	0.11%	
44.674	Aromadendrene	1435	0.08%	
44.774	Unidentified	1436	0.04%	
45.119	Unidentified	1442	0.01%	
45.324	Unidentified	1445	0.15%	
45.749	alpha-Humulene	1452	3.57%	
46.010	Alloaromodendrene	1456	0.16%	
46.140	Unidentified	1458	0.01%	
46.953	gamma-Murolene	1471	0.02%	
47.795	beta-Selinene	1485	0.06%	
47.944	Viridiflorene	1487	0.24%	
48.250	alpha-Selinene	1492	0.02%	
49.282	gamma-Cadinene	1509	0.01%	
49.589	delta-Cadinene	1514	0.03%	
50.675	Unidentified	1533	0.01%	
51.756	Unidentified	1551	0.01%	
53.343	Caryophyllene oxide	1578	0.13%	
54.079	Viridiflorol	1590	1.8%	
54.335	alpha-Humulene	1595	0.08%	
54.662	Pogostol	1600	0.01%	
54.963	Humulene epoxide II	1605	0.28%	
56.263	Caryophyllene oxide	1629	0.1%	
56.508	Caryophylla-4(12),8(13)-dien-5-ol	1633	0.01%	
57.198	Unidentified	1645	0.01%	
57.555	14-Hydroxy-9-epi-(Z)-Caryophyllene	1652	0.04%	
58.385	Unidentified	1666	0.02%	
63.994	Unidentified	1770	0.01%	
71.069	Isopimara-9(11),15-diene	1907	0.03%	
72.066	Unidentified	1928	0.01%	
77.738	Manool	2047	0.2%	

Total Identified Compounds **99.03 %**

