

GC/MS Report

Item	Lot SPX15-XK
Cistus (Labdanum) EO <i>Cistus ladanifer</i>	
Date	
1/16/2025	

Sample Information

Sample Name: Cistus (Labdanum) EO

Botanical Name: Cistus ladanifer

Lot Number: SPX15-XX

Production Method: Steam distilled

Sample Type: EO - Single

Country of Origin: Spain

Analysis Date: 1/16/2025

Manufacture Date: January 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

-5.88

1.47448

0.90014

Ret. Time	Component	Ret. Idx.	Conc. %	
3.550	2-Methylfuran	599	0.01%	
3.864	Unidentified	630	0.01%	
5.032	Unidentified	721	0.01%	
5.548	Unidentified isomer I	745	0.2%	
5.648	Unidentified isomer I	750	0.03%	
5.906	Toluene	762	0.07%	IFRA
6.377	Unidentified	783	0.01%	
6.690	Octane	798	0.01%	
7.924	6,6-Dimethylhepta-2,4-diene isomer	831	0.03%	
8.176	Unidentified	838	0.01%	
8.460	Unidentified	845	0.01%	
8.611	Unidentified	849	0.06%	
8.756	6,6-Dimethylhepta-2,4-diene	853	0.39%	
9.221	para-Xylene	865	0.01%	
9.723	Unidentified	878	0.09%	
10.153	Styrene	889	0.03%	
10.952	Dihydromyrcene isomer	907	0.09%	
11.539	Hashishene	918	0.02%	
11.659	Tricyclene	920	1.4%	
11.813	alpha-Thujene	923	0.29%	
11.971	Unidentified	926	0.08%	
12.275	alpha-Pinene	931	36.4%	
12.538	beta-Fenchene	936	0.03%	
13.011	alpha-Fenchene	945	0.16%	
13.114	Camphene	946	6.84%	
13.216	2-Octanone	948	0.02%	
13.304	Thuja-2,4(10)-diene	950	0.64%	
13.411	Unidentified	952	0.02%	
13.755	Benzaldehyde	958	0.02%	IFRA
13.907	6-Methyl-hept-5-en-2-one	961	0.04%	
14.362	Sabinene	969	0.06%	
14.660	beta-Pinene	975	1.28%	
14.772	Unidentified	977	0.01%	
15.000	6-Methyl hept-5-en-2-one isomer	981	0.03%	
15.300	Myrcene	986	0.08%	
15.357	Unidentified	987	0.24%	
15.516	Unidentified	990	0.03%	
15.575	Mesitylene analogue	991	0.02%	
15.649	Unidentified	993	0.02%	
16.263	Menthatriene analogue	1003	0.25%	

Ret. Time	Component	Ret. Idx.	Conc. %	
16.341	alpha-Phellandrene	1004	0.18%	
16.505	Unidentified	1007	0.08%	
17.002	alpha-Terpinene	1014	0.54%	
17.162	ortho-Cymene	1017	0.03%	
17.225	Unidentified	1018	0.02%	
17.489	para-Cymene	1022	5.85%	
17.779	Limonene	1026	2.51%	IFRA
17.874	beta-Phellandrene	1028	0.17%	
17.940	1,8-Cineole	1029	0.36%	
18.108	2,2,6-Trimethyl cyclohexanone	1031	2.03%	
18.857	Unidentified	1043	0.05%	
19.084	Unidentified	1046	0.1%	
19.641	gamma-Terpinene	1055	2.02%	
20.071	Acetophenone	1062	0.09%	
20.425	cis-Linalool oxide (furanoid)	1067	0.02%	
20.535	Pinol	1069	0.22%	
20.665	Gardenia ether	1071	0.06%	
20.920	Unidentified	1075	0.03%	
21.300	Camphenilone	1080	0.01%	
21.439	Terpinolene	1082	0.41%	
21.630	Fenchone	1085	0.03%	
21.753	para-Cymenene	1087	1.23%	
22.386	Linalool	1097	0.24%	IFRA
22.430	Unidentified	1098	0.06%	
22.600	Unidentified	1100	0.08%	
22.741	Nonanal	1102	0.05%	
23.025	Unidentified	1106	0.06%	
23.070	cis-Rose oxide	1107	0.23%	
23.630	beta-Thujone	1115	0.04%	IFRA
23.693	endo-Fenchol	1116	0.06%	
24.226	alpha-Campholenal	1124	0.37%	
24.475	Unidentified	1127	0.05%	
24.988	Non-3-en-2-one	1135	0.31%	
25.182	trans-Pinocarveol	1138	1.87%	
25.496	trans-Tagetone	1142	0.07%	
25.596	Camphor	1144	0.27%	
25.844	alpha-Phellandrene-8-ol	1147	0.17%	
25.937	Unidentified	1149	0.08%	
26.158	trans-beta-Terpineol	1152	0.02%	
26.306	Unidentified	1154	0.04%	

Ret. Time	Component	Ret. Idx.	Conc. %	
26.529	trans-Pinocamphone	1157	0.29%	
26.648	Pinocarvone	1159	0.2%	
27.025	Unidentified	1164	0.17%	
27.312	Borneol	1169	1.17%	
27.599	Isopinocamphone	1173	0.69%	
27.932	Terpinen-4-ol	1178	2.35%	
28.201	4'-Methylacetophenone	1182	0.01%	
28.353	para-Cymen-8-ol	1184	0.12%	
28.736	Unidentified	1189	0.05%	
28.932	Myrtenal	1192	0.91%	
29.136	Unidentified	1195	0.03%	
29.458	Unidentified	1200	0.02%	
29.715	Verbenone	1204	0.17%	
29.810	Unidentified	1205	0.05%	
30.465	endo-Fenchyl acetate	1215	0.03%	
30.548	trans-Carveol	1216	0.19%	
31.127	Unidentified	1224	0.12%	
31.180	Bornyl acetate analogue	1225	0.07%	
31.366	cis-Ocimenone	1228	0.11%	
31.465	Unidentified	1229	0.02%	
31.875	Unidentified	1235	0.28%	
32.149	Cuminal	1239	0.03%	IFRA
32.244	Carvone	1241	0.14%	IFRA
32.669	Linalyl acetate	1247	0.04%	
33.103	Unidentified	1253	0.24%	
33.443	Unidentified	1258	0.02%	
34.282	Unidentified	1271	0.02%	
34.539	Phellandral	1274	0.04%	
35.014	Bornyl acetate	1281	11.55%	
35.153	Isobornyl acetate	1283	0.16%	
35.464	Unidentified	1288	0.06%	
35.737	trans-Pinocarvyl acetate	1292	0.08%	
35.910	Carvacrol	1294	0.1%	
36.342	Unidentified	1301	0.05%	
36.636	Unidentified	1305	0.08%	
37.555	Myrtenyl acetate	1319	0.23%	
37.796	Verbanol acetate isomer	1323	0.07%	
38.150	Unidentified	1328	0.02%	
38.193	trans-Carvyl acetate	1329	0.09%	IFRA
39.158	Ethyl hydrocinnamate	1344	0.11%	

Ret. Time	Component	Ret. Idx.	Conc. %	
39.410	Eugenol	1348	0.02%	IFRA
40.604	Cyclosativene	1366	0.58%	
41.034	alpha-Copaene	1372	0.5%	
41.274	Unidentified	1376	0.06%	
41.561	Unidentified	1380	0.03%	
41.669	Unidentified	1382	0.02%	
42.050	Sativene	1388	0.1%	
42.224	Dihydroionone isomer	1390	0.05%	
43.047	beta-Maaliene	1403	0.05%	
43.336	alpha-Dihydroionone	1408	0.03%	
43.818	beta-Caryophyllene	1416	0.17%	
45.107	6,9-Guanidiene	1436	0.29%	
45.218	Unidentified	1438	0.05%	
45.665	trans-Muurolo-3,5-diene	1445	0.02%	
46.344	Alloaromodendrene	1456	0.64%	
47.106	trans-Cadina-1(6),4-diene	1468	0.12%	
47.283	gamma-Muuroloene	1471	0.09%	
48.130	alpha-Bulnesene	1485	0.37%	
48.291	Viridiflorene	1487	2.21%	
48.586	alpha-Selinene	1492	0.03%	
48.749	alpha-Muuroloene	1495	0.1%	
48.975	Unidentified	1498	0.03%	
49.049	Unidentified	1499	0.05%	
49.624	Unidentified	1509	0.18%	
49.930	delta-Cadinene	1514	0.51%	
50.116	cis-Calamenene	1517	0.15%	
50.185	Unidentified	1518	0.03%	
50.773	trans-Cadina-1,4-diene	1528	0.05%	
51.273	alpha-Calacorene	1537	0.15%	
51.852	Unidentified	1547	0.02%	
53.009	Palustrol	1566	0.18%	
53.372	Spathulenol	1572	0.09%	
53.686	Unidentified	1577	0.06%	
54.414	Viridiflorol	1590	1.96%	
54.548	Guaiol	1592	0.29%	
54.697	Unidentified	1595	0.05%	
55.005	Ledol	1600	0.64%	
55.239	Copaborneol	1604	0.27%	
56.335	Epicubenol	1623	0.05%	
57.844	alpha-Eudesmol	1650	0.02%	

Ret. Time	Component	Ret. Idx.	Conc. %
58.517	Unidentified	1662	0.13%
58.851	Cadalene	1668	0.05%
70.053	Unidentified	1879	0.02%
73.783	Unidentified	1955	0.06%
78.496	Unidentified	2054	0.02%

Total Identified Compounds **96.41 %**

GC/MS Report: Chromatogram

TIC
22,634,033

