



Essential Oil University

GC/MS Report

Item	Lot
Davana Oil, India <i>Artemisia pallens</i>	8F
Date	Analyst
1/29/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Davana Oil, India, meets the expected chemical profile for authentic essential oil of *Artemisia pallens*. 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:** Davana Oil, India**Botanical Name:** Artemisia pallens**Lot Number:** 8F**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** India**Analysis Date:** 1/29/2025**Manufacture Date:** February 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

Optical Rotation @20°C

Refractive Index @20°C

Specific Gravity @20°C

METHOD

USP[781]

USP[831]

USP[841]

RESULTS

+50.64

1.48852

0.96034



Ret. Time	Component	Ret. Idx.	Conc. %	
8.202	Unidentified	830	0.01%	
8.410	Ethyl 2-methylbutyrate	835	0.13%	
8.582	Isobutyl isovalerate	839	0.1%	
11.055	1,4-Cineole	901	0.06%	
11.297	Unidentified	905	0.04%	
12.891	Propyl 2-methylbutyrate	934	0.25%	
12.973	Unidentified	935	0.42%	
13.147	Propyl isovalerate	938	0.2%	
15.521	Unidentified	980	0.03%	
16.432	Unidentified	996	0.02%	
16.497	Unidentified	998	0.02%	
16.741	Unidentified	1002	0.13%	
17.047	Unidentified	1006	0.02%	
17.178	alpha-Terpinene	1008	0.05%	
17.646	trans-Pinocarveol	1015	0.38%	
18.317	gamma-vinyl-gamma-Valerolactone	1025	0.04%	
19.263	cis-Arbusculone	1040	0.03%	
19.822	gamma-Terpinene	1048	0.12%	
20.598	trans-Sabinene hydrate	1060	0.08%	
21.641	Terpinolene	1076	0.02%	
22.580	Linalool	1090	0.52%	IFRA
22.808	2-Methylbutyl-2-methylbutyrate	1093	0.39%	
22.942	Nonanal	1095	0.03%	
23.174	2-Methylbutyl isovalerate	1099	0.14%	
25.224	Unidentified	1128	0.03%	
25.871	Unidentified	1137	0.02%	
28.140	Terpinen-4-ol	1170	0.28%	
29.261	Unidentified	1186	0.02%	
29.976	Unidentified	1196	0.03%	
31.126	Nordavanone	1213	0.14%	
31.571	2-Methyl-3-hexenyl butyrate	1220	0.02%	
34.368	Unidentified	1260	0.03%	
35.070	Unidentified	1271	0.02%	
36.469	cis-Methyl cinnamate	1291	0.12%	
37.736	Elemene isomer	1310	0.02%	
38.401	delta-Elemene	1320	0.42%	
39.384	Ethyl hydrocinnamate	1335	0.1%	
39.636	Eugenol	1339	0.15%	IFRA
41.163	cis-Ethyl cinnamate	1362	1.12%	
41.405	Geranyl acetate	1365	0.76%	



Ret. Time	Component	Ret. Idx.	Conc. %	
41.768	trans-Methyl cinnamate	1371	0.75%	
42.162	beta-Elemene	1377	0.27%	
42.312	Threodavanafuran isomer	1379	0.06%	
42.476	Benzyl isovalerate	1382	0.07%	
42.705	Unidentified	1385	0.02%	
43.287	alpha-Gurjunene	1394	0.03%	
43.391	cis-Threodavanafuran	1396	0.29%	
43.528	Unidentified	1398	0.04%	
44.063	beta-Caryophyllene	1406	0.14%	
44.533	Unidentified	1414	0.02%	
45.253	beta-Copaene	1425	0.15%	
45.446	Unidentified	1428	0.04%	
45.714	alpha-Guaiene	1432	0.03%	
46.112	Unidentified	1439	0.04%	
46.309	alpha-Humulene	1442	0.05%	
46.586	Alloaromadendrene	1446	0.57%	
47.020	trans-Ethyl cinnamate	1453	4.3%	
47.190	Unidentified	1456	0.02%	
47.537	trans-Cadina-1(6),4-diene	1462	0.05%	
47.908	Germacrene D	1467	1.04%	
48.036	Davana ether I	1469	1.45%	
48.399	beta-Selinene	1475	1.31%	
48.532	Viridiflorene	1477	0.41%	
48.814	Bicyclogermacrene	1482	8.11%	
48.978	alpha-Murolene	1485	0.07%	
49.070	Unidentified	1486	0.04%	
49.230	Davana ether II	1489	4.45%	
49.317	Davana ether III	1490	0.99%	
49.498	Unidentified	1493	0.08%	
49.865	gamma-Cadinene	1499	0.31%	
50.029	Artedouglasia oxide C	1501	0.22%	
50.174	delta-Cadinene	1504	0.17%	
50.384	Davana ether IV	1507	2.52%	
50.517	Unidentified	1510	0.06%	
50.739	Artedouglasia oxide A	1513	0.3%	
51.162	Unidentified	1520	0.03%	
51.285	Unidentified	1522	0.04%	
51.701	Unidentified	1529	0.07%	
52.046	Davanone analogue	1535	0.45%	
52.340	Unidentified	1540	0.09%	



Ret. Time	Component	Ret. Idx.	Conc. %	
52.445	Davanone analogue	1542	1.27%	
52.725	trans-Nerolidol	1547	0.27%	
52.784	Davanone analogue	1548	0.33%	
52.930	Unidentified	1550	0.03%	
53.195	Unidentified	1555	0.06%	
53.271	Unidentified	1556	0.09%	
53.429	Artedouglasia oxide B	1558	0.14%	
53.832	Davanone	1565	53.55%	
54.171	Globulol	1571	0.35%	
54.678	Viridiflorol	1579	0.21%	
54.847	Unidentified	1582	0.67%	
54.978	Unidentified	1585	0.05%	
55.228	Unidentified + Unidentified	1589	0.23%	
55.409	Unidentified	1592	0.23%	
55.501	Unidentified	1593	0.33%	
55.820	Unidentified	1599	0.03%	
55.894	Unidentified	1600	0.06%	
56.060	Unidentified	1603	0.04%	
56.389	Unidentified	1609	0.02%	
56.490	Unidentified	1610	0.03%	
56.611	Unidentified	1613	0.07%	
56.673	Unidentified	1614	0.13%	
56.858	Unidentified	1617	0.24%	
57.212	Unidentified	1623	0.17%	
57.270	Unidentified	1624	0.1%	
57.382	tau-Cadinol	1626	1.41%	
57.645	Unidentified	1631	0.03%	
57.749	Desmethoxy enecalin	1633	0.05%	
58.098	alpha-Eudesmol	1639	0.81%	
58.536	Unidentified	1647	0.06%	
58.668	Unidentified	1649	0.05%	
58.791	Unidentified	1651	0.35%	
58.947	Unidentified	1654	1.18%	
59.182	Unidentified	1658	0.11%	
59.837	Unidentified isomer I	1670	0.27%	
59.953	Unidentified isomer I	1672	0.14%	
60.222	Unidentified	1677	0.09%	
60.355	Unidentified	1679	0.03%	
61.140	Unidentified	1693	0.26%	
61.483	Unidentified	1699	0.08%	



Ret. Time	Component	Ret. Idx.	Conc. %	
61.696	Unidentified	1703	0.06%	
61.947	Unidentified	1707	0.22%	
62.218	Unidentified	1712	0.03%	
63.277	Unidentified	1732	0.05%	
64.285	Unidentified	1751	0.1%	
64.906	Unidentified	1763	0.05%	
67.681	Unidentified	1815	0.03%	
68.129	Phytone	1824	0.05%	
71.176	Nonadecane	1883	0.03%	
80.694	Heneicosane	2081	0.05%	
80.971	Phytol	2087	0.03%	

Total Identified Compounds **92.78 %**

