



Essential Oil University

GC/MS Report

Item	Lot
Davana Oil, India <i>Artemisia pallens</i>	4K
Date	Analyst
1/14/2025	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:** 4K**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** India**Analysis Date:** 1/14/2025**Manufacture Date:** October 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

+50.96

1.48827

0.95917



Ret. Time	Component	Ret. Idx.	Conc. %	
4.356	3-Penten-2-ol	678	0.01%	
8.120	Unidentified	836	0.01%	
8.322	Ethyl 2-methylbutyrate	841	0.17%	
8.491	Ethyl isovalerate	846	0.12%	
10.941	Unidentified	907	0.08%	
11.181	Unidentified	911	0.04%	
12.764	Propyl 2-methylbutyrate	940	0.31%	
12.843	Unidentified	942	0.4%	
13.020	Propyl isovalerate	945	0.25%	
14.668	Unidentified	975	0.02%	
15.378	Unidentified	988	0.04%	
16.085	Unidentified	1000	0.02%	
16.283	Unidentified	1003	0.03%	
16.355	Unidentified	1005	0.02%	
16.589	Unidentified	1008	0.11%	
16.897	Unidentified	1013	0.02%	
17.029	alpha-Terpinene	1015	0.07%	
17.498	para-Cymene	1022	0.38%	
18.162	gamma-Vinyl gamma-valerolactone	1032	0.03%	
19.110	Unidentified	1047	0.02%	
19.668	gamma-Terpinene	1055	0.14%	
20.435	trans-Sabinene hydrate	1067	0.05%	
21.474	Unidentified	1083	0.03%	
22.415	Linalool	1097	0.48%	IFRA
22.642	2-Methylbutyl-2-methylbutyrate	1101	0.43%	
22.777	Nonanal	1103	0.03%	
22.875	Unidentified	1104	0.02%	
23.005	2-Methylbutyl isovalerate	1106	0.17%	
25.054	Unidentified	1136	0.03%	
25.702	Unidentified	1145	0.02%	
27.958	Terpinen-4-ol	1178	0.25%	
29.077	Unidentified	1194	0.02%	
29.782	Unidentified	1205	0.03%	
30.942	Nordavanone	1222	0.11%	
31.387	2-Methyl 3-hexenyl butyrate	1228	0.02%	
33.916	Unidentified	1265	0.01%	
34.180	Unidentified	1269	0.02%	
34.289	Methyl hydrocinnamate	1271	0.03%	
34.883	Unidentified	1279	0.02%	
36.175	Unidentified	1298	0.02%	



Ret. Time	Component	Ret. Idx.	Conc. %	
36.285	cis-Methyl cinnamate	1300	0.1%	
37.539	Elemene isomer	1319	0.03%	
38.208	delta-Elemene	1329	0.46%	
39.196	Ethyl hydrocinnamate	1344	0.11%	
39.452	Eugenol	1348	0.02%	IFRA
40.749	Unidentified	1368	0.03%	
40.974	cis-Ethyl cinnamate	1371	1%	
41.045	Daucene	1372	0.08%	
41.218	Geranyl acetate	1375	0.81%	
41.460	Unidentified	1379	0.03%	
41.580	trans-Methyl cinnamate	1381	0.62%	
41.650	Unidentified	1382	0.06%	
41.905	Unidentified	1386	0.03%	
41.968	beta-Elemene	1387	0.28%	
42.125	Threodavanafuran isomer	1389	0.05%	
42.285	Benzyl isovalerate	1391	0.06%	
42.515	Unidentified	1395	0.01%	
43.094	alpha-Gurjunene	1404	0.04%	
43.203	cis-Threodavanafuran	1406	0.28%	
43.328	alpha-Gurjunene	1408	0.04%	
43.862	beta-Caryophyllene	1416	0.15%	
44.336	Unidentified	1424	0.03%	
44.773	alpha-Maaliene	1431	0.03%	
45.049	Aromadendrene	1435	0.23%	
45.253	Unidentified	1439	0.04%	
45.361	Unidentified	1440	0.02%	
45.495	Unidentified	1442	0.03%	
45.840	Unidentified	1448	0.01%	
45.919	Unidentified	1449	0.05%	
46.107	alpha-Humulene	1452	0.06%	
46.384	Alloaromodendrene	1457	0.64%	
46.655	Unidentified	1461	0.02%	
46.822	trans-Ethyl cinnamate	1464	3.89%	
46.989	Unidentified	1466	0.02%	
47.337	trans-Cadina-1(6),4-diene	1472	0.07%	
47.706	Germacrene D	1478	0.98%	
47.840	Davana ether I	1480	1.3%	
48.195	beta-Selinene	1486	1.4%	
48.332	Viridiflorene	1488	0.62%	
48.612	Bicyclogermacrene	1492	8.77%	



Ret. Time	Component	Ret. Idx.	Conc. %	
48.787	alpha-Muurolene	1495	0.07%	
48.872	Unidentified	1497	0.13%	
49.032	Davana ether II	1499	3.77%	
49.120	Davana ether III	1501	0.91%	
49.309	Unidentified	1504	0.1%	
49.665	gamma-Cadinene	1510	0.34%	
49.824	Artedouglasia oxide C	1512	0.23%	
49.978	delta-Cadinene	1515	0.21%	
50.185	Davana ether IV	1518	2.24%	
50.326	Unidentified	1521	0.07%	
50.538	Artedouglasia oxide A	1524	0.32%	
50.823	Unidentified	1529	0.02%	
50.958	Unidentified	1531	0.04%	
51.084	Unidentified isomer I	1534	0.05%	
51.287	Unidentified isomer I	1537	0.04%	
51.496	Unidentified	1541	0.06%	
51.848	Davanone isomer	1546	0.45%	
51.920	Unidentified	1548	0.05%	
52.155	Unidentified	1552	0.08%	
52.246	Davanone isomer	1553	1.34%	
52.522	trans-Nerolidol	1558	0.28%	
52.584	Davanone isomer	1559	0.36%	
52.736	Unidentified	1561	0.02%	
52.985	Unidentified	1566	0.05%	
53.073	Unidentified	1567	0.08%	
53.229	Artedouglasia oxide B	1570	0.13%	
53.426	Spathulenol	1573	0.75%	
53.640	Davanone	1577	50.64%	
53.715	Unidentified	1578	0.16%	
53.905	Unidentified	1581	0.11%	
53.963	Globulol	1582	0.44%	
54.240	Unidentified	1587	0.03%	
54.475	Viridiflorol	1591	0.29%	
54.649	Unidentified	1594	0.69%	
54.782	Unidentified	1596	0.06%	
55.000	Unidentified	1600	0.1%	
55.027	Unidentified	1600	0.14%	
55.212	Unidentified	1603	0.24%	
55.302	Unidentified	1605	0.35%	
55.712	Unidentified	1612	0.15%	



Ret. Time	Component	Ret. Idx.	Conc. %	
55.857	Unidentified	1615	0.05%	
56.010	Unidentified	1618	0.03%	
56.176	Unidentified	1621	0.08%	
56.280	Unidentified	1622	0.05%	
56.430	Unidentified	1625	0.09%	
56.477	Unidentified	1626	0.17%	
56.657	Unidentified	1629	0.3%	
57.013	Unidentified	1635	0.53%	
57.181	tau-Cadinol	1638	1.29%	
57.250	Unidentified	1640	0.23%	
57.443	Unidentified	1643	0.08%	
57.541	Unidentified	1645	0.13%	
57.684	Unidentified	1647	0.03%	
57.887	alpha-Eudesmol	1651	0.92%	
58.339	Unidentified	1659	0.08%	
58.471	Unidentified	1661	0.06%	
58.599	Unidentified isomer II	1664	0.4%	
58.755	Unidentified isomer II	1666	1.39%	
58.985	Unidentified	1671	0.13%	
59.639	Unidentified isomer III	1682	0.23%	
59.752	Unidentified isomer III	1684	0.14%	
60.023	Unidentified	1689	0.07%	
60.135	Davanone-2-ol isomer	1691	0.04%	
60.941	Davanone-2-ol isomer	1706	0.29%	
61.190	Unidentified	1710	0.04%	
61.287	Unidentified	1712	0.04%	
61.502	Unidentified	1716	0.05%	
61.743	Unidentified	1721	0.2%	
62.004	Unidentified	1725	0.03%	
62.501	Unidentified	1735	0.03%	
63.069	Unidentified	1745	0.04%	
63.582	Unidentified	1755	0.13%	
63.770	Unidentified	1758	0.04%	
64.158	Unidentified	1766	0.21%	
64.711	Unidentified	1776	0.06%	
67.480	Unidentified	1829	0.03%	
67.924	Phytone	1838	0.04%	
70.976	Nonadecane	1898	0.03%	
80.486	Heneicosane	2097	0.05%	
80.776	Phytol	2104	0.03%	



Ret. Time	Component	Ret. Idx.	Conc. %
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Total Identified Compounds **90.63 %**

