



Essential Oil University

GC/MS Report

Item	Lot
Cedarwood (Rectified) EO virginiana <i>Juniperus virginiana</i>	8S
Date	Analyst
5/1/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Cedarwood (Rectified) EO virginiana, meets the expected chemical profile for authentic essential oil of *Juniperus virginiana*. 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:** Cedarwood (Rectified) EO
virginiana**Botanical Name:** Juniperus virginiana**Lot Number:** 8S**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** USA**Analysis Date:** 5/1/2025**Manufacture Date:** November 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

-29.24

1.50503

0.95502



Ret. Time	Component	Ret. Idx.	Conc. %	
12.032	alpha-Pinene	931	0.05%	
17.553	Limonene	1027	0%	
21.201	Terpinolene	1083	0.01%	
21.529	para-Cymenene	1088	0%	
28.687	Unidentified	1193	0.01%	
29.476	Verbenone	1205	0.01%	
31.643	Carvacryl methyl ether	1237	0%	
35.656	Unidentified	1296	0.07%	
38.421	Unidentified	1338	0.02%	
39.104	Unidentified	1348	0.05%	
39.286	Unidentified	1351	0.01%	
39.697	Unidentified	1357	0.01%	
39.962	Unidentified	1361	0.01%	
40.285	Unidentified	1366	0.01%	
41.144	alpha-Cedrene isomer	1379	0.75%	
41.345	Unidentified	1382	0.05%	
41.425	alpha-Duprezianene	1384	0.69%	
41.540	7-epi-Sesquithujene	1385	0.25%	
41.625	beta-Elemene	1387	0.02%	
41.850	Isolongifolene	1390	0.18%	
42.056	Unidentified	1393	0.02%	
42.336	beta-Longipinene	1397	0.2%	
42.443	alpha-Funebrene	1399	0.16%	
42.510	Unidentified	1400	0.03%	
42.662	Di-epi-alpha-cedrene	1403	0.12%	IFRA
43.015	Acora-3,7(14)-diene	1408	0.03%	
43.413	alpha-Cedrene	1415	33.25%	IFRA
43.550	beta-Caryophyllene	1417	1.27%	
43.845	beta-Cedrene	1422	6.2%	IFRA
43.979	Unidentified	1424	0.08%	
44.071	beta-Patchoulene	1425	0.03%	
44.273	(+)-epi-Bicyclosesquiphellandrene	1428	0.06%	
44.554	cis-Thujopsene	1433	15.67%	
44.663	Isobazzanene	1435	0.15%	
45.221	Unidentified	1444	0.03%	
45.363	beta-Barbatene	1446	0.11%	
45.519	Prezizaene	1448	0.27%	
45.654	trans-beta-Farnesene	1451	0.1%	
45.785	alpha-Humulene	1453	0.03%	
45.828	Unidentified	1453	0.04%	



Ret. Time	Component	Ret. Idx.	Conc. %	
46.011	Unidentified	1456	0.12%	
46.297	alpha-Acoradiene	1461	0.18%	
46.445	beta-Acoradiene	1463	0.42%	
46.643	Unidentified	1466	0.02%	
46.901	10-epi-beta-Acoradiene	1471	0.35%	
47.176	beta-Acoradiene	1475	0.15%	
47.362	beta-Chamigrene	1478	1.12%	
47.460	Widdra-2,4(14)-diene	1479	0.03%	
47.573	Unidentified	1481	0.04%	
47.853	beta-Selinene	1486	0.04%	
48.066	Valencene	1489	0.03%	
48.211	beta-Alaskene	1492	0.17%	
48.270	Unidentified	1492	0.07%	
48.530	Unidentified	1497	0.16%	
48.747	beta-Himachalene	1500	2.84%	
48.897	alpha-Chamigrene	1503	0.7%	
49.036	Cuparene	1505	0.98%	
49.155	beta-Curcumene	1507	0.1%	
49.206	alpha-Alaskene	1508	0.37%	
49.340	Unidentified	1510	0.03%	
49.515	Unidentified	1513	0.05%	
49.576	Unidentified	1514	0.31%	
49.660	Unidentified	1516	0.03%	
49.853	Unidentified	1519	0.18%	
49.983	beta-Sesquiphellandrene	1521	0.05%	
50.153	trans-gamma-Bisabolene	1524	0.08%	
50.594	gamma-Cuprenene	1531	1.38%	
50.804	Unidentified	1535	0.01%	
50.985	Viridiflorol	1538	0.2%	
51.323	delta-Cuprenene	1544	0.19%	
51.399	Unidentified	1545	0.13%	
51.831	Unidentified	1552	0.02%	
52.155	Unidentified	1558	0.04%	
52.577	Unidentified	1565	0%	
53.017	Unidentified	1572	0.14%	
53.138	Unidentified	1574	0.07%	
53.379	Unidentified	1578	0.02%	
53.475	Unidentified	1580	0.07%	
53.961	Unidentified	1588	0.03%	
54.284	Funebrol	1594	0.23%	



Ret. Time	Component	Ret. Idx.	Conc. %	
54.560	Unidentified	1598	0.05%	
54.905	Widdrol	1604	3.39%	
55.022	Cedrol	1606	18.53%	
55.280	Unidentified	1611	0.04%	
55.475	Unidentified	1615	0.05%	
55.746	Epicedrol	1619	0.34%	
56.148	2-epi-alpha-Cedren-3-one	1627	0.16%	
56.394	Unidentified	1631	0.12%	
56.564	beta-Acorenol	1634	0.12%	
56.844	Unidentified	1639	0.54%	
56.935	Unidentified	1641	0.04%	
57.142	Unidentified	1644	0.22%	
57.431	Unidentified	1649	0.08%	
57.585	Unidentified	1652	0.5%	
58.019	Unidentified	1660	0.4%	
58.139	Unidentified	1662	0.26%	
58.245	Unidentified	1664	0.05%	
58.463	Unidentified	1668	0.23%	
58.713	Junicedranone	1672	0.12%	
59.007	Unidentified	1677	0.14%	
59.160	Unidentified	1680	0.14%	
59.280	alpha-Bisabolol	1682	0.51%	IFRA
59.395	Khusian-2-ol	1684	0.23%	
59.550	Unidentified	1687	0.11%	
59.649	Unidentified	1689	0.18%	
59.768	Cedr-8-en-13-ol	1691	0.14%	
59.929	Unidentified	1694	0.12%	
60.096	Junicedranol	1697	0.14%	
60.160	Unidentified	1698	0.03%	
60.448	Unidentified	1703	0.31%	
60.560	Unidentified	1705	0.03%	
60.788	Thujopsenal	1710	0.21%	
60.917	Unidentified	1712	0.07%	
61.043	Unidentified	1714	0.02%	
61.298	Unidentified	1719	0.07%	
61.600	Unidentified	1725	0.01%	
61.857	Unidentified	1730	0.02%	
62.560	Unidentified	1743	0.03%	
62.709	Unidentified	1745	0.05%	
62.859	beta-Acoradienol	1748	0.06%	



Ret. Time	Component	Ret. Idx.	Conc. %	
63.260	Unidentified	1756	0.01%	
63.441	Unidentified	1759	0.01%	
63.660	Unidentified	1763	0.02%	
63.994	Unidentified	1770	0.08%	
64.301	Alaskene analogue	1775	0.11%	
65.061	Unidentified	1789	0.2%	
65.180	Alaskene analogue	1792	0.13%	
65.320	Unidentified	1794	0.08%	
65.440	Unidentified	1797	0.03%	
65.495	Nootkatone	1798	0.12%	IFRA
65.621	Unidentified	1800	0.08%	
66.120	Unidentified	1810	0.03%	
66.786	Unidentified	1823	0.02%	

Total Identified Compounds **93.53 %**

