



Essential Oil University

GC/MS Report

Item	Lot
Cedarwood (Rectified) EO virginiana <i>Juniperus virginiana</i>	7Z
Date	Analyst
10/31/2025	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:** 7Z**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** USA**Analysis Date:** 10/31/2025**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

-29.68

1.50477

0.95243



Ret. Time	Component	Ret. Idx.	Conc. %	
12.749	alpha-Pinene	927	0.07%	ALLERGEN
18.428	Limonene	1023	0.01%	ALLERGEN IFRA
26.378	Camphor	1140	0.01%	ALLERGEN
28.700	Terpinen-4-ol	1173	0.07%	
29.708	alpha-Terpineol	1188	0.02%	ALLERGEN
32.675	Thymol methyl ether	1231	0.04%	
36.685	Thymol	1289	0.01%	
36.772	Unidentified	1290	0.04%	
39.571	Unidentified	1332	0.01%	
39.952	alpha-Terpinyl acetate	1338	0.01%	
40.255	Unidentified	1342	0.03%	
40.463	Unidentified	1346	0.01%	
41.101	Unidentified	1355	0.01%	
41.208	Unidentified	1357	0.01%	
41.468	Unidentified	1361	0.01%	
41.665	beta-Patchoulene	1364	0.01%	
41.920	alpha-Copaene	1368	0.01%	
41.981	Unidentified	1369	0.05%	
42.322	Cedrene isomer	1374	0.69%	
42.489	2-epi-alpha-Funebrene	1376	0.08%	
42.606	alpha-Duprezianene	1378	0.78%	
42.793	beta-Elemene	1381	0.47%	
43.044	Isolongifolene	1385	0.22%	
43.238	Unidentified	1388	0.02%	
43.513	beta-Longipinene	1392	0.12%	
43.637	alpha-Funebrene	1394	0.5%	
43.850	Funebrene isomer	1397	0.2%	
44.072	Unidentified	1400	0.05%	
44.186	Unidentified	1402	0.04%	
44.315	Unidentified	1404	0.01%	
44.612	alpha-Cedrene	1409	25.96%	IFRA
44.740	beta-Caryophyllene	1411	1.26%	ALLERGEN
44.975	Unidentified	1415	0.65%	
45.049	beta-Cedrene	1416	5.84%	IFRA
45.155	Unidentified	1417	0.01%	
45.270	Unidentified	1419	0.01%	
45.465	(+)-epi-Bicyclosesquiphellandrene	1422	0.07%	
45.779	cis-Thujopsene	1427	17.3%	
45.855	Isobazzanene	1429	0.13%	
46.012	Unidentified	1431	0.01%	



Ret. Time	Component	Ret. Idx.	Conc. %	
46.144	Unidentified	1433	0.01%	
46.388	Unidentified	1437	0.06%	
46.593	beta-Barbatene	1440	0.13%	
46.716	Prezizaene	1442	0.42%	
46.835	Unidentified	1444	0.06%	
46.968	alpha-Humulene	1446	0.09%	
47.057	Unidentified	1448	0.08%	
47.228	Valerna-4,7(11)-diene	1450	0.16%	
47.482	alpha-Acoradiene	1455	0.39%	
47.636	beta-Acoradiene	1457	0.56%	
47.823	Unidentified	1460	0.06%	
48.030	cis-Cadina-1(6),4-diene	1463	0.13%	
48.089	Selina-4,11-diene	1464	0.45%	
48.168	cis-Muurolo-4(14),5-diene	1465	0.29%	
48.354	gamma-Curcumene	1468	0.34%	
48.424	alpha-Muuroloene	1470	0.15%	
48.568	beta-Chamigrene	1472	1.25%	
48.688	Unidentified	1474	0.05%	
48.782	Unidentified	1475	0.03%	
48.934	Unidentified	1478	0.04%	
49.053	beta-Selinene	1480	0.32%	
49.264	trans-Murrola-4(14),5-diene	1483	0.09%	
49.405	beta-Alaskene	1485	0.3%	
49.490	alpha-Selinene	1486	0.29%	
49.650	alpha-Muuroloene	1489	0.32%	
49.738	Himachalene isomer	1490	0.14%	
49.940	beta-Himachalene	1494	1.44%	
49.990	Pseudowiddrene	1494	0.94%	
50.113	alpha-Chamigrene	1496	0.72%	
50.235	Cuparene	1498	1.64%	
50.401	alpha-Alaskene	1501	0.93%	
50.507	gamma-Cadinene	1503	0.17%	
50.690	Unidentified	1506	0.03%	
50.813	delta-Cadinene	1508	0.76%	
51.077	Unidentified	1512	0.21%	
51.130	beta-Sesquiphellandrene	1513	0.08%	
51.330	cis-gamma-Bisabolene	1517	0.15%	
51.553	cis-Calamenene	1520	0.01%	
51.670	trans-Cadina-1,4-diene	1522	0.02%	
51.796	gamma-Cuprenene	1524	0.92%	



Ret. Time	Component	Ret. Idx.	Conc. %	
51.920	alpha-Cadinene	1527	0.01%	
52.176	Unidentified	1531	0.18%	
52.366	Unidentified	1534	0.01%	
52.556	delta-Cuprenene	1537	0.16%	
52.605	Unidentified	1538	0.14%	
52.997	Unidentified	1545	0.02%	
53.240	Unidentified	1549	0%	
53.365	Unidentified	1551	0.1%	
53.669	Unidentified	1556	0.02%	
53.795	Unidentified	1558	0.02%	
53.995	Unidentified	1561	0.01%	
54.234	Unidentified	1565	0.16%	
54.360	Unidentified	1567	0.07%	
54.645	Unidentified	1572	0.03%	
54.694	Unidentified	1573	0.04%	
54.745	Unidentified	1574	0.03%	
54.921	Unidentified	1577	0.03%	
55.145	Unidentified	1581	0.03%	
55.318	Unidentified	1584	0.05%	
55.442	epi-Globulol	1586	0.57%	
55.654	Unidentified	1589	0.12%	
55.873	allo-Cedrol	1593	0.06%	
56.155	Widdrol	1598	3.03%	
56.278	Cedrol	1600	18.29%	
56.695	Unidentified	1607	0.22%	
56.748	Unidentified	1608	0.26%	
56.985	Epicedrol	1612	0.83%	
57.257	1,10-di-epi-Cubenol	1617	0.19%	
57.363	2-epi-alpha-Cedren-3-one	1619	0.13%	
57.490	gamma-Eudesmol	1621	0.41%	
57.525	Unidentified	1622	0.28%	
57.787	alpha-Acorenol	1626	0.24%	
58.078	Unidentified	1631	0.5%	
58.125	epi-alpha-Muurolol	1632	0.26%	
58.371	Unidentified	1637	0.18%	
58.830	Unidentified	1645	0.71%	
59.244	Unidentified	1652	0.27%	
59.318	Unidentified	1653	0.09%	
59.409	Unidentified	1655	0.08%	
59.512	Unidentified	1657	0.08%	



Ret. Time	Component	Ret. Idx.	Conc. %	
59.671	Unidentified	1659	0.19%	
59.968	Junicedranone	1665	0.11%	
60.220	Isocedranol	1669	0.11%	
60.487	alpha-Bisabolol	1674	0.49%	IFRA
60.649	Khusian-2-ol	1677	0.16%	
60.792	Unidentified	1679	0.07%	
60.904	Unidentified	1681	0.12%	
60.998	Cedr-8-en-13-ol	1683	0.1%	
61.168	Unidentified	1686	0.09%	
61.367	Unidentified	1689	0.16%	
61.702	Unidentified	1695	0.21%	
62.035	Thujopsenal	1701	0.15%	
62.161	Unidentified	1704	0.07%	
62.535	Unidentified	1711	0.07%	
63.064	Unidentified	1720	0.03%	
63.778	Unidentified	1734	0.05%	
63.958	Unidentified	1737	0.04%	
64.084	Unidentified	1739	0.03%	
64.206	Unidentified	1742	0.01%	
64.495	Cuparenal	1747	0.01%	
64.693	Cedryl acetate	1751	0.05%	
64.855	Benzyl benzoate	1754	0.05%	ALLERGEN IFRA
65.243	Unidentified	1761	0.06%	
65.527	Unidentified	1766	0.05%	
65.580	Unidentified	1767	0.03%	
66.156	Unidentified	1778	0.02%	
66.316	Unidentified	1781	0.11%	
66.409	Unidentified	1783	0.08%	
66.578	Unidentified	1786	0.06%	
66.736	Nootkatone	1789	0.09%	IFRA
66.886	Unidentified	1791	0.05%	
67.144	Unidentified	1796	0.01%	
67.351	Unidentified	1800	0.02%	
67.774	Unidentified	1808	0.01%	
68.028	Unidentified	1813	0.02%	
69.270	Unidentified	1837	0%	
74.654	Unidentified	1945	0.01%	
74.941	Pimaradiene	1950	0.01%	
75.163	Unidentified	1955	0.01%	
79.133	Abietatriene	2038	0.01%	



Ret. Time	Component	Ret. Idx.	Conc. %
80.630	Abietadiene	2070	0.03%

Total Identified Compounds **93.03 %**



TIC
16,762,816

