



Essential Oil University

GC/MS Report

Item	Lot
Cedarwood EO, Atlas <i>Cedrus atlantica</i>	9K
Date	Analyst
1/14/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Cedarwood EO, Atlas, meets the expected chemical profile for authentic essential oil of *Cedrus atlantica*. 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 EO, Atlas**Botanical Name:** Cedrus atlantica**Lot Number:** 9K**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** Morocco**Analysis Date:** 1/14/2025**Manufacture Date:** September 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

+79.80

1.51241

0.93344



Ret. Time	Component	Ret. Idx.	Conc. %	
6.559	Isobutenyl methyl ketone	798	0.02%	
12.071	alpha-Pinene	931	0.03%	
17.602	Limonene	1028	0.01%	IFRA
21.574	para-Cymenene	1089	0.01%	
23.509	endo-Fenchol	1118	0.01%	
24.295	4-Acetyl-1-methylcyclohexene	1129	0.59%	
25.777	Unidentified isomer I	1151	0.04%	
25.956	Unidentified isomer I	1153	0.04%	
27.118	endo-Borneol	1170	0.01%	
28.003	4'-Methyl acetophenone	1183	0.07%	
28.726	alpha-Terpineol	1194	0.04%	
31.580	Unidentified	1236	0.01%	
39.110	alpha-Longipinene	1348	0.09%	
40.374	alpha-Ylangene	1368	0.05%	
40.519	Unidentified	1370	0.02%	
40.803	alpha-Copaene	1374	0.04%	
41.372	Unidentified	1383	0.71%	
41.807	Unidentified	1389	0.09%	
42.020	Unidentified	1393	0.03%	
42.060	Unidentified	1393	0.01%	
42.385	Unidentified	1398	0.01%	
42.547	Sibirene	1401	0.63%	
42.741	cis-Vestitenone	1404	0.09%	
42.941	Longifolene	1407	0.59%	IFRA
43.366	alpha-Cedrene	1414	0.01%	IFRA
43.576	Unidentified	1417	0.03%	
43.815	Unidentified	1421	0.01%	
43.910	Himachala-2,4-diene	1423	0.49%	
44.050	Unidentified	1425	0.12%	
44.223	Unidentified	1428	0.02%	
44.280	Unidentified	1428	0.01%	
44.470	Unidentified	1432	0.05%	
44.579	Unidentified	1433	0.06%	
45.012	Unidentified	1440	0.62%	
45.297	Unidentified	1445	0.02%	
45.557	alpha-Himachalene	1449	16.82%	
45.708	trans-beta-Farnesene	1451	0.19%	
46.063	Unidentified	1457	0.32%	
46.406	Unidentified	1463	0.38%	
46.602	11-aH-Himachala-1,4-diene isomer	1466	0.13%	



Ret. Time	Component	Ret. Idx.	Conc. %	
46.831	alpha-Neocallitropsene	1469	0.47%	
47.089	Bicyclogermacrene	1474	0.04%	
47.319	gamma-Himachalene	1477	10.31%	
47.580	11-aH-Himachala-1,4-diene	1481	2.01%	
47.755	10s,11s-Himachala-3(12),4-diene	1484	0.03%	
47.866	cis-4,10-Epoxy amorphane	1486	0.22%	
48.139	alpha-Bulnesene	1490	0.1%	
48.245	Unidentified	1492	0.04%	
48.297	Unidentified	1493	0.19%	
48.737	beta-Himachalene	1500	45.41%	
48.966	(E)-Eremophila-1(10),7(11)-dien-12-yl acetate	1504	0.02%	
49.205	alpha-Dehydro-ar-himachalene	1508	1.38%	
49.454	Unidentified	1512	0.02%	
49.703	delta-Cadinene	1516	1.93%	
49.804	cis-Calamenene	1518	0.1%	
49.888	trans-Calamenene	1519	0.08%	
50.130	gamma-Dehydro-ar-himachalene	1523	2.16%	
50.280	Unidentified	1526	0.02%	
50.565	Unidentified	1531	0.11%	
50.614	gamma-Vetivenene	1532	0.37%	
50.760	Unidentified	1534	0.03%	
51.037	alpha-Calacorene	1539	1.11%	
51.396	Unidentified	1545	0.05%	
51.971	Unidentified	1555	0.06%	
52.249	Unidentified	1559	0.1%	
52.383	Unidentified	1562	0.05%	
52.854	Himachalene epoxide	1570	0.34%	
53.149	Unidentified	1575	0.11%	
53.328	Unidentified	1578	0.08%	
53.598	Unidentified	1582	0.01%	
53.746	Unidentified	1585	0.01%	
53.863	Unidentified	1587	0.01%	
53.996	Unidentified	1589	0.05%	
54.343	Unidentified	1595	0.02%	
54.619	Longiborneol	1599	0.3%	
54.902	Unidentified isomer I	1604	0.03%	
55.020	Unidentified isomer I	1606	0.02%	
55.230	beta-Himachalene oxide	1610	0.59%	
55.470	Unidentified	1614	0.02%	
55.603	beta-Himachalene oxide isomer	1617	0.45%	



Ret. Time	Component	Ret. Idx.	Conc. %	
55.810	Unidentified	1621	0.03%	
56.020	Muurola-4,10(14)-dien-1-beta-ol	1624	0.1%	
56.087	Epicubenol	1625	0.45%	
56.140	Unidentified	1626	0.15%	
56.299	Unidentified	1629	0.09%	
56.447	Unidentified	1632	0.05%	
56.655	Unidentified	1636	0.12%	
57.001	beta-Himachalol	1642	0.08%	
57.209	Unidentified	1645	0.05%	
57.562	Himachalol analogue	1652	0.56%	
57.938	Unidentified	1658	0.03%	
58.130	Unidentified	1662	0.06%	
58.265	Allohimachalol	1664	0.83%	
58.404	Unidentified	1667	0.18%	
58.594	Cadalene	1670	0.07%	
58.876	Unidentified	1675	0.03%	
59.374	cis-gamma-Atlantone	1684	0.65%	
59.680	Unidentified	1689	0.01%	
59.871	Deodarone isomer	1693	0.87%	
59.955	Deodarone isomer	1694	0.89%	
60.032	trans-gamma-Atlantone	1696	0.67%	
60.181	10-Nor-calamenen-10-one	1698	0.04%	
60.392	Unidentified	1702	0.01%	
60.866	cis-alpha-Atlantone	1711	0.45%	
61.390	Unidentified	1721	0.01%	
61.509	Unidentified	1723	0.02%	
62.036	Unidentified	1733	0.05%	
62.374	Unidentified	1739	0.03%	
62.554	Unidentified	1743	0.02%	
63.380	Unidentified	1758	0.05%	
64.075	trans-alpha-Atlantone	1771	2.28%	
64.280	Unidentified	1775	0.02%	
64.533	Unidentified	1780	0.01%	
65.145	Unidentified	1791	0.07%	

Total Identified Compounds **95.28 %**

