



Essential Oil University

GC/MS Report

Item	Lot
Nootka Tree Wood EO <i>Cupressus nootkatensis</i>	4K
Date	Analyst
11/20/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Nootka Tree Wood EO, meets the expected chemical profile for authentic essential oil of *Cupressus nootkatensis*. 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: Nootka Tree Wood EO
Botanical Name: Cupressus nootkatensis
Lot Number: 4K
Production Method: Steam distilled

Sample Type: EO - Single
Country of Origin: Canada
Analysis Date: 11/20/2025
Manufacture Date: July 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	METHOD	RESULTS
Optical Rotation @20°C	USP[781]	-64.84
Refractive Index @20°C	USP[831]	1.51785
Specific Gravity @20°C	USP[841]	0.94847



Ret. Time	Component	Ret. Idx.	Conc. %	
11.332	1,2,4-Trimethylenecyclohexane	918	0.04%	
11.982	alpha-Pinene	930	0.21%	ALLERGEN
12.771	alpha-Fenchene	944	0.09%	
15.033	Myrcene	986	0.04%	PROP. 65
16.077	alpha-Phellandrene	1004	0.01%	
16.215	delta-3-Carene	1006	1.11%	
16.726	alpha-Terpinene	1014	0.01%	ALLERGEN
17.202	para-Cymene	1022	0.17%	
17.495	Limonene	1026	0.04%	ALLERGEN IFRA
17.596	beta-Phellandrene	1028	0.02%	
19.348	gamma-Terpinene	1055	0.02%	
20.866	Unidentified	1078	0.01%	
21.128	Terpinolene	1082	0.1%	ALLERGEN
21.453	para-Cymenene	1087	0.19%	
24.132	Unidentified	1127	0.01%	
25.424	Sabina ketone	1146	0.07%	
26.990	Borneol	1169	0.04%	
27.599	Terpinen-4-ol	1177	1.24%	
28.034	para-Cymen-8-ol	1184	0.14%	
28.146	Terpineol isomer	1185	0.17%	ALLERGEN
28.607	alpha-Terpineol	1192	0.5%	ALLERGEN
28.645	Myrtenol	1193	0.09%	
29.406	trans-para-Menth-2-en-7-ol	1204	0.16%	
29.634	Eucarvone isomer	1207	0.07%	
30.628	3-Isopropyl phenol	1222	0.04%	
31.575	Carvacryl methyl ether	1236	3.39%	
32.759	Carvenone	1253	0.06%	
33.429	Myrtenol analogue	1263	0.04%	
33.645	trans-para-Menth-2-en-7-ol	1266	1.75%	
33.810	Unidentified	1268	0.02%	
34.211	Unidentified	1274	0.03%	
34.901	trans-Shisool	1285	0.05%	
35.660	Carvacrol	1296	11.43%	
35.935	Unidentified	1300	0.11%	
36.731	Unidentified	1312	0.06%	
36.810	Unidentified	1313	0.03%	
37.112	Hinokitiol (Thujaplicin) isomer	1318	0.09%	
37.205	Methyl thujate	1319	0.04%	
40.365	Unidentified	1367	0.07%	
40.659	alpha-Copaene	1372	0.05%	



Ret. Time	Component	Ret. Idx.	Conc. %	
41.557	beta-Elemene	1386	0.43%	
43.080	Thymohydroquinone dimethyl ether	1409	0.05%	
43.446	beta-Caryophyllene	1415	0.06%	ALLERGEN
45.208	Aromodendrene	1443	0.14%	
45.701	Unidentified	1451	0.03%	
46.413	11,12,13-tri-nor-cis-Eudesm-5-en-7-one	1463	0.3%	
46.595	Unidentified	1466	0.01%	
46.807	Nootkatene analogue	1469	1.88%	
46.922	gamma-Muurolene	1471	0.51%	
47.075	cis-4,10-epoxy-Amorphane isomer	1473	0.59%	
47.455	Unidentified	1479	0.78%	
47.500	Aristolochene	1480	0.26%	
47.779	beta-Selinene	1485	1.22%	
48.018	Valencene	1488	7.2%	
48.239	alpha-Selinene	1492	1.26%	
48.397	alpha-Muurolene	1495	0.66%	
48.662	alpha-Bulnesene	1499	0.12%	
48.757	beta-Dihydroagarofuran	1500	0.07%	
48.988	beta-Bisabolene	1504	0.78%	
49.414	Nootkatene	1511	43.54%	
49.575	delta-Cadinene	1514	2.01%	
49.640	(-)-alpha-Panasinsen	1515	1.01%	
49.766	cis-Calamenene	1517	0.13%	
49.833	Zonarene	1518	0.12%	
50.410	trans-Cadine-1,4-diene	1528	0.04%	
50.504	Unidentified	1530	0.11%	
50.660	alpha-Cadinene	1532	0.21%	
50.912	alpha-Calacorene	1537	0.15%	
51.635	beta-Vetivenene	1549	0.01%	
52.108	trans-Nerolidol	1557	0.04%	
52.201	Unidentified	1558	0.03%	
53.570	Unidentified	1582	0.02%	
53.615	Gleenol	1582	0.06%	
54.544	Unidentified	1598	0.03%	
55.295	Unidentified	1611	0.29%	
55.335	Unidentified	1612	0.16%	
55.957	1-Epicubenol	1623	0.26%	
56.183	gamma-Eudesmol	1627	0.1%	
56.648	Unidentified	1635	0.09%	
56.768	tau-Cadinol	1638	0.77%	



Ret. Time	Component	Ret. Idx.	Conc. %	
56.882	epi-alpha-Cadinol	1640	1.09%	
57.027	delta-Cadinol	1642	0.5%	
57.516	alpha-Cadinol	1651	1.49%	
57.670	Intermedeol isomer	1654	0.47%	
57.891	Unidentified	1658	0.36%	
58.016	Intermedeol isomer	1660	0.79%	
58.293	Unidentified	1665	0.02%	
58.475	Cadalene	1668	0.03%	
58.633	Unidentified	1671	0.04%	
58.803	Unidentified	1674	0.57%	
59.010	Unidentified	1677	0.04%	
59.439	Unidentified	1685	0.14%	
59.498	Unidentified	1686	0.13%	
59.782	Nootkatol isomer	1691	0.08%	
60.414	Unidentified	1703	0.01%	
60.670	Nootkatol	1707	0.52%	
61.220	Unidentified	1718	0.02%	
61.325	Unidentified	1720	0.01%	
62.350	gamma-Costol	1739	0.09%	
62.858	Unidentified	1748	0.05%	
63.127	Unidentified	1753	0.02%	
63.345	Unidentified	1757	0.01%	
63.477	13-Hydroxyvalencene	1760	1.83%	
63.622	beta-Bisabolenal	1763	0.35%	
63.838	alpha-Costol	1767	0.1%	
63.970	Unidentified	1769	0.03%	
64.217	Unidentified	1774	0.04%	
64.642	beta-Bisabolanol	1782	0.08%	
64.792	Unidentified	1784	0.05%	
64.945	Unidentified	1787	0.04%	
65.077	Unidentified	1790	0.05%	
65.226	Unidentified	1793	0.02%	
65.446	Nootkatone	1797	2.54%	IFRA
70.930	Unidentified	1905	0.14%	
72.673	Nootkatin isomer	1940	0.02%	
72.807	Unidentified	1943	0.02%	
92.905	Unidentified	2398	0.02%	
95.769	Unidentified isomer I	2471	0.39%	
96.620	Unidentified isomer II	2492	0.26%	
97.751	Unidentified isomer I	2522	0.11%	



Ret. Time	Component	Ret. Idx.	Conc. %
100.888	Unidentified isomer II	2605	0.08%
102.710	Unidentified	2655	0.02%

Total Identified Compounds **95.43 %**



TIC
20,507,606

