



Essential Oil University

GC/MS Report

Item	Lot
Juniper Berry EO <i>Juniperus communis</i>	6F
Date	Analyst
12/15/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Juniper Berry EO, meets the expected chemical profile for authentic essential oil of *Juniperus communis*. 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: Juniper Berry EO
Botanical Name: Juniperus communis
Lot Number: 6F
Production Method: Steam distilled

Sample Type: EO - Single
Country of Origin: Serbia
Analysis Date: 12/15/2025
Manufacture Date: November 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]	-4.44
Refractive Index @20°C	USP[831]	1.47380
Specific Gravity @20°C	USP[841]	0.86852



Ret. Time	Component	Ret. Idx.	Conc. %	
11.522	2,6-Dimethyl-4-octene	908	0.03%	
12.093	Hashishene	918	0%	
12.216	Tricyclene	920	0.11%	
12.364	alpha-Thujene	922	0.19%	
12.843	alpha-Pinene	931	41.16%	ALLERGEN
13.613	alpha-Fenchene	945	0.04%	
13.714	Camphene	946	0.26%	
13.915	Thuja-2,4(10)diene	950	0.02%	
14.349	Unidentified	958	0.01%	
15.021	Sabinene	969	14.26%	
15.328	beta-Pinene	975	7.67%	ALLERGEN
15.629	Unidentified	980	0.02%	
15.810	para-Menth-3-ene	983	0%	
15.937	Myrcene	986	3.95%	PROP. 65
16.649	Unidentified	998	0.01%	
16.876	Pseudolimonene	1002	0.15%	
17.171	delta-3-Carene	1006	0.12%	
17.685	alpha-Terpinene	1014	0.02%	ALLERGEN
18.169	para-Cymene	1021	0.17%	
18.491	Limonene	1026	8.42%	ALLERGEN IFRA
18.590	beta-Phellandrene	1028	0.03%	
18.681	1,8-Cineole	1029	0.01%	
20.378	gamma-Terpinene	1055	1.2%	
21.186	trans-Sabinene hydrate	1067	0.02%	
22.207	Terpinolene	1082	0.69%	ALLERGEN
22.543	para-Cymenene	1087	0.01%	
23.162	alpha-Pinene oxide	1096	0.05%	
23.290	Unidentified	1098	0%	
23.856	Unidentified	1107	0.05%	
24.706	trans-para-Mentha-2,8-dienol	1119	0.01%	
25.474	cis-Limonene oxide	1130	0.02%	
25.695	Unidentified	1133	0.01%	
25.759	trans-Limonene oxide	1134	0.02%	
26.032	trans-Pinocarveol	1138	0.04%	
26.150	Epoxyterpinolene	1139	0.03%	
26.349	trans-Verbenol	1142	0.05%	
26.474	Unidentified	1144	0.01%	
26.618	trans-beta-Terpineol	1146	0.01%	ALLERGEN
28.201	Borneol	1169	0.03%	
28.814	Terpinen-4-ol	1178	5.24%	



Ret. Time	Component	Ret. Idx.	Conc. %	
29.215	para-Cymen-8-ol	1184	0.03%	
29.801	alpha-Terpineol	1192	1.05%	ALLERGEN
30.142	Unidentified	1197	0.01%	
30.627	Verbenone	1204	0.01%	
31.360	endo-Fenchyl acetate	1215	0.01%	
31.422	trans-Carveol	1215	0.02%	
32.330	cis-Carveol	1229	0.01%	
33.151	Carvone	1241	0.01%	ALLERGEN IFRA
33.874	Unidentified	1251	0.01%	
34.062	Unidentified	1254	0.01%	
35.904	Bornyl acetate	1281	0.16%	
36.797	Unidentified	1294	0.03%	
37.348	Unidentified	1302	0.02%	
37.586	Unidentified	1306	0.01%	
38.247	Unidentified	1316	0.01%	
40.029	alpha-Terpinyl acetate	1343	0.53%	
41.966	alpha-Copaene	1372	0.02%	
42.735	7-epi-Sesquithujene	1384	0.02%	
42.850	beta-Elemene	1386	0.03%	
44.531	alpha-Cedrene	1412	0.24%	IFRA
44.800	beta-Caryophyllene	1416	4.28%	ALLERGEN
45.088	beta-Cedrene	1421	0.03%	IFRA
45.310	Unidentified	1424	0.01%	
45.398	gamma-Elemene	1425	0.04%	
45.772	cis-Thujopsene	1431	0.05%	
46.658	Humulen-(v1)	1446	0.12%	
46.900	trans-beta-Farnesene	1449	0.03%	
47.054	alpha-Humulene	1452	3.25%	
47.311	Alloaromodendrene	1456	0.01%	
47.551	alpha-Acoradiene	1460	0.01%	
47.705	beta-Acoradiene	1462	0.01%	
48.073	Unidentified	1468	0.02%	
48.244	trans-Cadina-1(6),4-diene	1471	0.04%	
48.632	Germacrene D	1477	1.97%	
49.320	trans-Muurolo-4(14),5-diene	1488	0.01%	
49.501	beta-Alaskene	1491	0.04%	
49.713	alpha-Muuroloene	1494	0.05%	
50.290	Unidentified	1504	0.03%	
50.468	alpha-Alaskene	1507	0.07%	
50.586	gamma-Cadinene	1509	0.06%	

Ret. Time	Component	Ret. Idx.	Conc. %
50.889	delta-Cadinene	1514	1.81%
51.088	cis-Calamenene	1517	0.01%
51.396	trans-gamma-Bisabolene	1522	0.01%
52.000	alpha-Cadinene	1532	0.01%
52.664	alpha-Elemol	1544	0.02%
53.323	Germacrene B	1555	0.03%
54.358	Germacren D-4-ol	1572	0.06%
54.684	Caryophyllene oxide	1578	0.01%
55.523	allo-Cedrol	1592	0.09%
56.260	Cedrol	1604	1.3%
56.636	Unidentified	1611	0.01%
58.872	Unidentified	1651	0.03%
64.766	Cedryl acetate	1758	0.01%
74.124	meta-Camphorene	1941	0.03%
75.854	para-Camphorene	1976	0.01%
76.391	Manool oxide	1987	0.01%
79.198	Unidentified	2047	0.01%
80.688	Abietadiene	2079	0.04%
89.789	4-epi-Abietal	2285	0.01%

Total Identified Compounds **99.7 %**



TIC
24,844,504

