



Essential Oil University

GC/MS Report

Item	Lot
Yuzu EO <i>Citrus junos</i>	1W
Date	Analyst
1/24/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Yuzu EO, meets the expected chemical profile for authentic essential oil of *Citrus junos*. 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: Yuzu EO
Botanical Name: Citrus junos
Lot Number: 1W
Production Method: Steam distilled

Sample Type: EO - Single
Country of Origin: Japan
Analysis Date: 1/24/2025
Manufacture Date: March 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

+83.76
1.47349
0.84724



Ret. Time	Component	Ret. Idx.	Conc. %	
11.699	alpha-Thujene	921	0.32%	
12.101	alpha-Pinene	928	1.13%	
12.990	Camphene	945	0.01%	
14.243	Sabinene	967	0.17%	
14.542	beta-Pinene	973	0.63%	
15.169	Myrcene	984	1.47%	
16.072	Pseudolimonene	1001	0.02%	
16.219	alpha-Phellandrene	1003	0.29%	
16.364	Unidentified	1005	0.01%	
16.877	alpha-Terpinene	1013	0.13%	
17.368	para-Cymene	1020	2.57%	
17.781	Limonene	1027	81.08%	IFRA
17.837	beta-Phellandrene	1028	0.45%	
18.062	cis-beta-Ocimene	1031	0.01%	
18.726	trans-beta-Ocimene	1041	0.13%	
19.526	gamma-Terpinene	1054	7.88%	
20.298	cis-Linalool oxide (furanoid)	1065	0.05%	
20.435	Pinol	1068	0.01%	
21.294	Terpinolene	1081	0.33%	
21.618	para-Cymenene	1086	0.04%	
22.246	Linalool	1095	1.67%	IFRA
23.738	trans-para-Mentha-2,8-dienol	1117	0.01%	
24.488	cis-Limonene oxide	1128	0.04%	
24.745	Unidentified	1132	0.01%	
24.783	trans-Limonene oxide	1132	0.04%	
25.018	Menthatriene analogue	1136	0.01%	
25.171	Epoxyterpinolene	1138	0.01%	
25.467	Camphor	1142	0.01%	
26.578	Unidentified	1158	0.01%	
27.007	cis-Linalool oxide (pyranoid)	1165	0.01%	
27.336	trans-Linalool oxide (pyranoid)	1169	0.02%	
27.775	Terpinen-4-ol	1176	0.1%	
28.199	Cryptone	1182	0.02%	
28.778	alpha-Terpineol	1190	0.1%	
29.092	Unidentified	1195	0.02%	
29.581	Decanal	1202	0.01%	
30.403	trans-Carveol	1214	0.02%	
31.104	Thymol methyl ether	1224	0%	
31.301	cis-Carveol	1227	0.02%	
32.101	Carvone	1239	0.01%	IFRA



Ret. Time	Component	Ret. Idx.	Conc. %	
35.216	Thymol	1285	0.07%	
36.257	Unidentified	1300	0.01%	
37.153	Unidentified	1314	0.02%	
38.843	Unidentified	1339	0.01%	
39.727	Unidentified	1353	0.01%	
40.849	alpha-Copaene	1370	0.03%	
41.641	beta-Cubebene	1382	0.01%	
41.748	beta-Elemene	1384	0.03%	
43.646	beta-Caryophyllene	1413	0.09%	
44.264	gamma-Elemene	1423	0.01%	
45.761	trans-beta-Farnesene	1447	0.21%	
45.889	alpha-Humulene	1449	0.02%	
47.478	Germacrene D	1475	0.05%	
48.367	Bicyclogermacrene	1489	0.03%	
48.568	alpha-Murolene	1492	0.01%	
49.749	delta-Amorphene	1512	0.04%	
50.107	beta-Sesquiphellandrene	1518	0.01%	
50.668	(Z)-9-Dodecen-12-olide (Yuzu Lactone)	1527	0.03%	
52.144	Germacrene B	1552	0.03%	
53.190	Spathulenol	1570	0.35%	
53.503	Caryophyllene oxide	1575	0.02%	
56.157	Unidentified	1621	0.02%	
56.414	Unidentified	1625	0.01%	
57.700	alpha-Cadinol	1648	0.01%	

Total Identified Compounds **99.87 %**

