



Essential Oil University

GC/MS Report

Item	Lot
Yuzu EO	9L
<i>Citrus junos</i>	
Date	Analyst
4/11/2025	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: 9L
Production Method: Steam distilled

Sample Type: EO - Single
Country of Origin: Japan
Analysis Date: 4/11/2025
Manufacture Date: March 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

+83.36
1.47309
0.84536



Ret. Time	Component	Ret. Idx.	Conc. %	
11.685	alpha-Thujene	924	0.32%	
12.086	alpha-Pinene	932	1.09%	
14.223	Sabinene	971	0.18%	
14.520	beta-Pinene	977	0.6%	
15.147	Myrcene	988	1.37%	
16.046	Pseudolimonene	1004	0.01%	
16.192	alpha-Phellandrene	1006	0.4%	
16.850	alpha-Terpinene	1016	0.2%	
17.335	para-Cymene	1024	0.57%	
17.723	Limonene	1030	79.95%	IFRA
17.788	beta-Phellandrene	1031	2.05%	
18.029	cis-beta-Ocimene	1034	0.01%	
18.696	trans-beta-Ocimene	1045	0.16%	
19.487	gamma-Terpinene	1057	9.24%	
21.257	Terpinolene	1084	0.34%	
21.586	para-Cymenene	1089	0.04%	
22.210	Linalool	1099	2.25%	IFRA
23.698	trans-para-Mentha-2,8-dienol	1121	0.01%	
24.450	cis-Limonene oxide	1132	0.01%	
24.974	Unidentified	1139	0.01%	
27.734	Terpinen-4-ol	1179	0.09%	
28.735	alpha-Terpineol	1194	0.09%	
29.532	Decanal	1206	0.01%	
30.367	trans-Carveol	1218	0.01%	
32.062	Carvone	1243	0.02%	IFRA
35.177	Thymol	1289	0.06%	
37.936	Elemene	1330	0.02%	
38.164	delta-Elemene	1334	0.04%	
40.800	alpha-Copaene	1374	0.01%	
41.698	beta-Elemene	1388	0.02%	
43.586	beta-Caryophyllene	1417	0.09%	
44.209	gamma-Elemene	1427	0.02%	
45.703	trans-beta-Farnesene	1451	0.15%	
45.835	alpha-Humulene	1453	0.02%	
47.418	Germacrene D	1479	0.07%	
48.310	Bicyclogermacrene	1493	0.35%	
48.507	alpha-Murolene	1496	0.01%	
49.692	delta-Cadinene	1516	0.03%	
50.043	beta-Sesquiphellandrene	1522	0.01%	
50.608	(Z)-9-Dodecen-12-olide (Yuzu Lactone)	1532	0.02%	



Ret. Time	Component	Ret. Idx.	Conc. %	
52.083	Germacrene B	1556	0.03%	
53.129	Spathulenol	1574	0.01%	

Total Identified Compounds **99.98 %**

