



Essential Oil University

GC/MS Report

Item	Lot
Orange EO CP Wild <i>Citrus sinensis</i>	3C
Date	Analyst
1/21/2025	Dr. Robert S. Pappas

© Copyright 2025 by Essential Oil University. All rights reserved. Any publishing, copying, use, dissemination, or distribution of this report, including online, without the express written permission of Essential Oil University is strictly prohibited.

The analysis of this batch sample, Orange EO CP Wild, meets the expected chemical profile for authentic essential oil of *Citrus sinensis*. 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:** Orange EO CP Wild**Botanical Name:** Citrus sinensis**Lot Number:** 3C**Production Method:** Cold Press**Sample Type:** EO - Single**Country of Origin:** Dominican Republic**Analysis Date:** 1/21/2025**Manufacture Date:** October 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

+95.00

1.47361

0.84915



Ret. Time	Component	Ret. Idx.	Conc. %	
12.828	alpha-Pinene	928	0.56%	
15.043	Sabinene	967	0.36%	
15.359	beta-Pinene	973	0.09%	
15.983	Myrcene	983	1.86%	
16.833	Octanal	998	0.26%	
17.069	alpha-Phellandrene	1002	0.05%	
17.219	delta-3-Carene	1004	0.21%	
18.225	para-Cymene	1020	0.01%	
18.651	Limonene	1026	93.44%	IFRA
18.700	beta-Phellandrene	1027	0.29%	
19.618	trans-beta-Ocimene	1040	0.02%	
20.425	gamma-Terpinene	1053	0.08%	
21.219	1-Octanol	1065	0.03%	
22.249	Terpinolene	1080	0.03%	
23.192	Linalool	1094	0.78%	IFRA
23.556	Nonanal	1100	0.04%	
24.730	trans-para-Mentha-2,8-dienol	1116	0.01%	
25.500	cis-Limonene oxide	1127	0.01%	
25.725	Unidentified	1131	0.01%	
25.794	trans-Limonene oxide	1132	0.01%	
26.825	Citronellal	1146	0.05%	IFRA
28.830	Terpinen-4-ol	1175	0.02%	
29.826	alpha-Terpineol	1189	0.11%	
30.604	Decanal	1201	0.67%	
30.891	Octyl acetate	1205	0.03%	
31.450	trans-Carveol	1213	0.01%	
31.964	Citronellol	1220	0.18%	IFRA
32.758	Neral	1232	0.05%	IFRA
33.170	Carvone	1238	0.01%	IFRA
33.573	Linalyl acetate	1244	0.03%	
34.783	Geranial	1261	0.09%	IFRA
35.336	Unidentified	1269	0.02%	
36.269	Thymol	1283	0.12%	
37.556	Unidentified	1302	0.01%	
40.359	Eugenol	1344	0.01%	IFRA
40.872	Neryl acetate	1352	0.01%	
42.055	alpha-Copaene	1370	0.03%	
42.843	beta-Cubebene	1382	0.02%	
42.950	beta-Elemene	1383	0.01%	
44.227	Dodecanal	1403	0.06%	



Ret. Time	Component	Ret. Idx.	Conc. %	
44.875	beta-Caryophyllene	1413	0.03%	
45.516	beta-Copaene	1423	0.03%	
48.717	Germacrene D	1474	0.02%	
48.942	Aristolochene	1478	0.02%	
49.427	Valencene	1485	0.14%	
50.978	delta-Cadinene	1511	0.04%	
52.741	Elemol	1540	0.02%	
54.769	Caryophyllene oxide	1574	0.01%	
61.064	beta-Sinensal	1684	0.01%	
64.091	alpha-Sinensal	1739	0.01%	
66.924	Nootkatone	1792	0.01%	IFRA

Total Identified Compounds **99.99 %**

