



Essential Oil University

GC/MS Report

Item	Lot
Orange EO CP Sweet <i>Citrus sinensis</i>	6D
Date	Analyst
7/25/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Orange EO CP Sweet, 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 Sweet**Botanical Name:** Citrus sinensis**Lot Number:** 6D**Production Method:** Cold Press**Sample Type:** EO - Single**Country of Origin:** Italy**Analysis Date:** 7/25/2025**Manufacture Date:** June 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

+96.52

1.47339

0.84811



Ret. Time	Component	Ret. Idx.	Conc. %	
12.876	alpha-Pinene	932	0.63%	
15.102	Sabinene	971	0.32%	
15.421	beta-Pinene	976	0.07%	
16.041	Myrcene	987	2.07%	
16.910	Octanal	1002	0.33%	
17.140	alpha-Phellandrene	1006	0.05%	
17.284	delta-3-Carene	1008	0.22%	
18.298	para-Cymene	1023	0.05%	
18.698	Limonene	1029	94.58%	IFRA
18.766	beta-Phellandrene	1030	0.22%	
18.830	1,8-Cineole	1031	0.01%	
19.687	trans-beta-Ocimene	1044	0.01%	
20.500	gamma-Terpinene	1056	0.04%	
21.316	1-Octanol	1069	0.02%	
22.334	Terpinolene	1084	0.03%	
23.286	Linalool	1098	0.37%	IFRA
23.660	Nonanal	1104	0.04%	
24.836	trans-para-Mentha-2,8-dienol	1121	0.01%	
25.599	cis-Limonene oxide	1132	0.04%	
25.897	trans-Limonene oxide	1136	0.04%	
26.936	Citronellal	1151	0.04%	IFRA
29.942	alpha-Terpineol	1194	0.04%	
30.706	Decanal	1205	0.38%	
30.991	Octyl acetate	1209	0.02%	
31.564	trans-Carveol	1218	0.01%	
32.086	Citronellol	1225	0.01%	IFRA
32.469	cis-Carveol	1231	0.01%	
32.874	Neral	1237	0.03%	IFRA
33.281	Carvone	1243	0.02%	IFRA
34.896	Geranial	1266	0.06%	IFRA
35.452	Perillaldehyde	1274	0.01%	IFRA
42.128	alpha-Copaene	1375	0.02%	
42.245	Neryl acetate	1376	0.01%	
42.906	beta-Cubebene	1386	0.02%	
42.979	Unidentified	1388	0.01%	
44.316	Dodecanal	1408	0.04%	
44.951	beta-Caryophyllene	1418	0.02%	
45.592	beta-Copaene	1429	0.01%	
48.792	Germacrene D	1480	0.01%	
49.495	Valencene	1491	0.04%	



Ret. Time	Component	Ret. Idx.	Conc. %
51.044	delta-Cadinene	1516	0.02%

Total Identified Compounds **99.97 %**

