



Essential Oil University

GC/MS Report

Item	Lot
Orange EO CP Sweet <i>Citrus sinensis</i>	8G
Date	Analyst
5/1/2025	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:** 8G**Production Method:** Cold Press**Sample Type:** EO - Single**Country of Origin:** Italy**Analysis Date:** 5/1/2025**Manufacture Date:** February 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

+96.72

1.47334

0.84767



Ret. Time	Component	Ret. Idx.	Conc. %	
11.669	alpha-Thujene	924	0%	
12.066	alpha-Pinene	931	0.63%	
14.201	Sabinene	971	0.34%	
14.497	beta-Pinene	976	0.07%	
15.126	Myrcene	988	2%	
15.969	Octanal	1003	0.36%	
16.171	alpha-Phellandrene	1006	0.05%	
16.313	delta-3-Carene	1008	0.21%	
17.317	para-Cymene	1023	0.04%	
17.729	Limonene	1030	94.5%	IFRA
17.785	beta-Phellandrene	1031	0.17%	
18.673	trans-beta-Ocimene	1044	0.01%	
19.451	gamma-Terpinene	1056	0.04%	
20.245	Octanol	1069	0.03%	
21.236	Terpinolene	1084	0.03%	
22.180	Linalool	1098	0.39%	IFRA
22.547	Nonanal	1104	0.04%	
23.674	trans-para-Mentha-2,8-dienol	1120	0.01%	
24.428	cis-Limonene oxide	1131	0.03%	
24.690	cis-para-Mentha-2,8-dien-1-ol	1135	0.01%	
24.718	trans-Limonene oxide	1135	0.02%	
25.765	Citronellal	1151	0.05%	IFRA
28.710	alpha-Terpineol	1194	0.04%	
29.498	Decanal	1205	0.45%	
29.785	Octyl acetate	1209	0.03%	
30.334	trans-Carveol	1217	0.01%	
30.861	Citronellol	1225	0.01%	IFRA
31.234	cis-Carveol	1231	0%	
31.638	Neral	1237	0.05%	IFRA
32.034	Carvone	1242	0.02%	IFRA
33.650	Geranial	1266	0.09%	IFRA
34.177	Perillaldehyde	1274	0.01%	IFRA
36.387	Unidentified	1307	0.01%	
39.685	Unidentified	1357	0%	
40.773	alpha-Copaene	1374	0.02%	
40.949	Geranyl acetate	1376	0.01%	
41.562	beta-Cubebene	1386	0.01%	
41.668	beta-Elemene	1387	0%	
43.004	Dodecanal	1408	0.06%	
43.559	beta-Caryophyllene	1417	0.02%	



Ret. Time	Component	Ret. Idx.	Conc. %	
44.218	beta-Copaene	1427	0.01%	
47.400	Germacrene D	1479	0.01%	
48.099	Valencene	1490	0.06%	
49.673	delta-Cadinene	1516	0.03%	
51.441	alpha-Elemol	1546	0%	

Total Identified Compounds **99.97 %**

