



Essential Oil University

GC/MS Report

Item	Lot
Orange EO CP Sweet, Pure & Natural <i>Citrus sinensis</i>	2J
Date	Analyst
11/13/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Orange EO CP Sweet, Pure & Natural, 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, Pure & Natural**Botanical Name:** Citrus sinensis**Lot Number:** 2J**Production Method:** Cold Press**Sample Type:** EO - Single**Country of Origin:** Italy**Analysis Date:** 11/13/2025**Manufacture Date:** September 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

+96.28

1.47359

0.84940



Ret. Time	Component	Ret. Idx.	Conc. %	
12.849	alpha-Pinene	931	0.57%	ALLERGEN
15.069	Sabinene	970	0.29%	
15.386	beta-Pinene	976	0.07%	ALLERGEN
16.006	Myrcene	987	1.79%	PROP. 65
16.880	Octanal	1002	0.28%	
17.102	alpha-Phellandrene	1005	0.03%	
17.249	delta-3-Carene	1007	0.19%	
18.258	para-Cymene	1023	0.07%	
18.633	Limonene	1028	95.02%	ALLERGEN IFRA
18.709	beta-Phellandrene	1029	0.22%	
19.653	trans-beta-Ocimene	1044	0.02%	
20.462	gamma-Terpinene	1056	0.02%	
21.272	1-Octanol	1068	0.02%	
22.290	Terpinolene	1083	0.01%	ALLERGEN
23.242	Linalool	1098	0.33%	ALLERGEN IFRA
23.617	Nonanal	1103	0.04%	
24.176	Unidentified	1111	0.02%	
24.787	trans-para-Mentha-2,8-dienol	1120	0.02%	
25.554	cis-Limonene oxide	1131	0.1%	
25.810	cis-para-Mentha-2,8-dien-1-ol	1135	0.02%	
25.844	trans-Limonene oxide	1135	0.06%	
26.887	Citronellal	1150	0.03%	IFRA
29.890	alpha-Terpineol	1193	0.05%	ALLERGEN
30.213	Unidentified	1198	0.02%	
30.652	Decanal	1204	0.31%	
30.932	Octyl acetate	1208	0.02%	
31.504	trans-Carveol	1217	0.02%	
32.416	cis-Carveol	1230	0.02%	
32.817	Neral	1236	0.03%	ALLERGEN IFRA
33.230	Carvone	1242	0.05%	ALLERGEN IFRA
34.843	Geranial	1265	0.05%	ALLERGEN IFRA
35.396	Unidentified	1273	0.01%	
37.395	Unidentified	1303	0.02%	
38.291	Unidentified	1316	0.01%	
40.866	Unidentified	1355	0.02%	
42.049	alpha-Copaene	1373	0.01%	
42.843	beta-Cubebene	1385	0.01%	
42.923	Unidentified	1387	0.01%	
44.250	Dodecanal	1407	0.03%	
44.878	beta-Caryophyllene	1417	0.01%	ALLERGEN



Ret. Time	Component	Ret. Idx.	Conc. %	
45.521	beta-Copaene	1427	0.01%	
48.713	Germacrene D	1478	0.01%	
49.422	Valencene	1490	0.03%	
50.973	delta-Cadinene	1515	0.02%	

Total Identified Compounds **99.88 %**



TIC
19,530,835

