



Essential Oil University

GC/MS Report

Item	Lot
Orange EO CP Sweet, Pure & Natural <i>Citrus sinensis</i>	2C
Date	Analyst
12/12/2025	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: 2C
Production Method: Cold Press

Sample Type: EO - Single
Country of Origin: Italy
Analysis Date: 12/12/2025
Manufacture Date: December 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	METHOD	RESULTS
Optical Rotation @20°C	USP[781]	+96.08
Refractive Index @20°C	USP[831]	1.47285
Specific Gravity @20°C	USP[841]	0.84680



Ret. Time	Component	Ret. Idx.	Conc. %	
12.216	alpha-Thujene	917	0.01%	
12.628	alpha-Pinene	924	0.75%	ALLERGEN
14.821	Sabinene	963	0.34%	
15.128	beta-Pinene	968	0.08%	ALLERGEN
15.759	Myrcene	980	2.41%	PROP. 65
16.611	Octanal	995	0.46%	
16.837	alpha-Phellandrene	999	0.05%	
16.984	delta-3-Carene	1001	0.23%	
17.505	alpha-Terpinene	1009	0.01%	ALLERGEN
18.002	para-Cymene	1016	0.06%	
18.435	Limonene	1023	93.05%	ALLERGEN IFRA
18.490	beta-Phellandrene	1024	0.22%	
18.540	1,8-Cineole	1024	0.07%	
19.381	trans-beta-Ocimene	1037	0.02%	
20.176	gamma-Terpinene	1049	0.05%	
20.976	1-Octanol	1061	0.06%	
21.990	Terpinolene	1076	0.03%	ALLERGEN
22.935	Linalool	1090	0.55%	ALLERGEN IFRA
23.308	Nonanal	1096	0.03%	
24.468	trans-para-Mentha-2,8-dienol	1113	0.02%	
25.228	cis-Limonene oxide	1124	0.05%	
25.522	trans-Limonene oxide	1128	0.05%	
26.559	Citronellal	1143	0.04%	IFRA
28.226	Octaldehyde dimethyl acetal	1166	0.01%	
28.540	Terpinen-4-ol	1171	0.01%	
29.538	alpha-Terpineol	1185	0.18%	ALLERGEN
30.315	Decanal	1196	0.54%	
30.614	Octyl acetate	1201	0.03%	
31.164	trans-Carveol	1209	0.02%	
31.530	Nerol	1214	0%	
31.685	Citronellol	1216	0.02%	ALLERGEN IFRA
32.078	cis-Carveol	1222	0.01%	
32.471	Neral	1228	0.06%	ALLERGEN IFRA
32.875	Carvone	1234	0.05%	ALLERGEN IFRA
33.611	Unidentified	1244	0.02%	
34.492	Geranial	1257	0.09%	ALLERGEN IFRA
34.826	Unidentified	1262	0.01%	
35.028	Perillaldehyde	1265	0.02%	IFRA
36.044	Unidentified	1280	0.01%	
37.054	Unidentified	1294	0.01%	

Ret. Time	Component	Ret. Idx.	Conc. %	
37.258	Undecanal	1297	0.01%	
37.938	Unidentified	1307	0.01%	
40.526	Unidentified	1347	0.01%	
41.710	alpha-Copaene	1364	0.04%	
41.834	Geranyl acetate	1366	0.01%	ALLERGEN
42.499	beta-Cubebene	1376	0.02%	
42.604	beta-Elemene	1378	0.01%	
43.900	Dodecanal	1398	0.05%	
44.518	beta-Caryophyllene	1407	0.02%	ALLERGEN
45.165	beta-Copaene	1418	0.02%	
48.363	Germacrene D	1469	0.02%	
49.071	Valencene	1480	0.03%	
50.632	delta-Cadinene	1505	0.03%	
52.398	alpha-Elemol	1535	0%	
60.660	beta-Sinensal	1677	0.01%	

Total Identified Compounds **99.95 %**



TIC
80,280,286

