



Essential Oil University

GC/MS Report

Item	Lot
Tangerine EO CP <i>Citrus reticulata</i>	5Q
Date	Analyst
7/25/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Tangerine EO CP, meets the expected chemical profile for authentic essential oil of *Citrus reticulata*. 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:** Tangerine EO CP**Botanical Name:** Citrus reticulata**Lot Number:** 5Q**Production Method:** Cold Press**Sample Type:** EO - Single**Country of Origin:** USA; Canada**Analysis Date:** 7/25/2025**Manufacture Date:** April 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

+94.48

1.47405

0.84792



Ret. Time	Component	Ret. Idx.	Conc. %	
12.378	alpha-Thujene	920	0.14%	
12.798	alpha-Pinene	927	1.01%	
13.725	Camphene	944	0.01%	
15.010	Sabinene	966	0.2%	
15.322	beta-Pinene	972	0.33%	
15.948	Myrcene	983	2.29%	
16.813	Octanal	998	0.06%	
17.032	alpha-Phellandrene	1002	0.05%	
17.179	delta-3-Carene	1004	0.04%	
17.703	alpha-Terpinene	1012	0.07%	
18.195	para-Cymene	1019	0.35%	
18.618	Limonene	1025	90.44%	IFRA
18.675	beta-Phellandrene	1026	0.3%	
18.900	cis-beta-Ocimene	1030	0%	
19.578	trans-beta-Ocimene	1040	0.06%	
20.385	gamma-Terpinene	1052	3.69%	
21.191	1-Octanol	1064	0.01%	
22.201	Terpinolene	1079	0.16%	
23.147	Linalool	1093	0.17%	IFRA
23.519	Nonanal	1099	0.02%	
25.450	cis-Limonene oxide	1127	0.01%	
25.745	trans-Limonene oxide	1131	0.01%	
26.780	Citronellal	1146	0.01%	IFRA
28.773	Terpinen-4-ol	1174	0%	
29.771	alpha-Terpineol	1189	0.05%	
30.547	Decanal	1200	0.09%	
30.842	Octyl acetate	1204	0.01%	
32.713	Neral	1231	0.01%	IFRA
34.727	Geranial	1260	0.01%	IFRA
35.263	Perillaldehyde	1268	0.01%	IFRA
36.205	Thymol	1282	0.01%	
36.280	Limonen-10-ol	1283	0.01%	
37.491	Unidentified	1301	0%	
38.572	Unidentified	1317	0.01%	
40.216	Citronellyl acetate	1342	0%	
40.791	Neryl acetate	1351	0.02%	
41.969	alpha-Copaene	1368	0.05%	
42.075	Geranyl acetate	1370	0.02%	
42.755	beta-Cubebene	1380	0.03%	
42.849	beta-Elemene	1382	0.01%	



Ret. Time	Component	Ret. Idx.	Conc. %	
44.105	Limonen-10-yl acetate	1401	0.03%	
44.776	beta-Caryophyllene	1411	0.03%	
46.854	trans-beta-Farnesene	1445	0.01%	
48.624	Germacrene D	1473	0.02%	
49.336	Valencene	1484	0.01%	
49.510	Bicyclogermacrene	1487	0.01%	
50.051	trans,trans-alpha-Farnesene	1495	0.04%	
50.887	delta-Cadinene	1509	0.05%	
52.661	Elemol	1539	0.01%	
63.995	alpha-Sinensal	1738	0%	

Total Identified Compounds **99.97 %**

