



Essential Oil University

GC/MS Report

Item	Lot
Tangerine EO CP <i>Citrus reticulata</i>	6W
Date	Analyst
3/3/2025	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:** 6W**Production Method:** Cold Press**Sample Type:** EO - Single**Country of Origin:** USA; Canada**Analysis Date:** 3/3/2025**Manufacture Date:** September 2024

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

+94.52

1.47400

0.84785



Ret. Time	Component	Ret. Idx.	Conc. %	
11.673	alpha-Thujene	924	0.12%	
12.073	alpha-Pinene	931	0.81%	
14.211	Sabinene	971	0.18%	
14.510	beta-Pinene	976	0.27%	
15.137	Myrcene	988	1.82%	
15.987	Octanal	1003	0.06%	
16.186	alpha-Phellandrene	1006	0.04%	
16.329	delta-3-Carene	1008	0.03%	
16.842	alpha-Terpinene	1016	0.06%	
17.332	para-Cymene	1024	0.27%	
17.729	Limonene	1030	92.46%	IFRA
17.785	beta-Phellandrene	1031	0.2%	
18.695	trans-beta-Ocimene	1045	0.05%	
19.474	gamma-Terpinene	1057	2.83%	
20.279	1-Octanol	1069	0.01%	
21.256	Terpinolene	1084	0.12%	
22.203	Linalool	1099	0.16%	IFRA
22.572	Nonanal	1104	0.02%	
24.457	cis-Limonene oxide	1132	0.01%	
24.749	trans-Limonene oxide	1136	0.01%	
28.738	alpha-Terpineol	1194	0.04%	
29.529	Decanal	1206	0.08%	
32.057	Carvone	1243	0.01%	IFRA
34.203	Perillaldehyde	1274	0.01%	IFRA
39.705	Neryl acetate	1357	0.02%	
40.811	alpha-Copaene	1374	0.04%	
40.989	Geranyl acetate	1377	0.01%	
41.599	beta-Cubebene	1386	0.04%	
41.740	Unidentified	1388	0.02%	
43.016	Unidentified	1408	0.04%	
43.602	beta-Caryophyllene	1418	0.01%	
47.439	Germacrene D	1479	0.03%	
48.144	Valencene	1490	0.01%	
48.900	trans,trans-alpha-Farnesene	1503	0.05%	
49.711	delta-Cadinene	1516	0.04%	

Total Identified Compounds **99.92 %**

