



Essential Oil University

GC/MS Report

Item	Lot
Tangerine EO CP <i>Citrus reticulata</i>	9G
Date	Analyst
12/16/2024	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:** 9G**Production Method:** Cold Press**Sample Type:** EO - Single**Country of Origin:** USA; Canada**Analysis Date:** 12/16/2024**Manufacture Date:** August 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

+92.80

1.47412

0.84886



Ret. Time	Component	Ret. Idx.	Conc. %	
11.666	alpha-Thujene	924	0.13%	
12.066	alpha-Pinene	931	0.8%	
14.206	Sabinene	971	0.18%	
14.502	beta-Pinene	976	0.26%	
15.131	Myrcene	988	1.88%	
15.973	Octanal	1003	0.26%	
16.178	alpha-Phellandrene	1006	0.04%	
16.320	delta-3-Carene	1008	0.01%	
16.834	alpha-Terpinene	1016	0.05%	
17.324	para-Cymene	1024	0.41%	
17.723	Limonene	1030	91.69%	IFRA
17.775	beta-Phellandrene	1031	0.2%	
18.685	trans-beta-Ocimene	1045	0.07%	
19.463	gamma-Terpinene	1057	2.87%	
20.260	1-Octanol	1069	0.02%	
21.245	Terpinolene	1084	0.12%	
22.192	Linalool	1099	0.2%	IFRA
22.558	Nonanal	1104	0.02%	
24.441	cis-Limonene oxide	1131	0.03%	
24.736	trans-Limonene oxide	1136	0.03%	
28.729	alpha-Terpineol	1194	0.05%	
29.514	Decanal	1205	0.29%	
34.200	Perillaldehyde	1274	0.02%	IFRA
39.696	Neryl acetate	1357	0.02%	
40.803	alpha-Copaene	1374	0.05%	
40.978	Geranyl acetate	1377	0.01%	
41.590	beta-Cubebene	1386	0.02%	
43.028	Dodecanal	1408	0.04%	
45.706	trans-beta-Farnesene	1451	0.02%	
47.428	Germacrene D	1479	0.02%	
48.892	trans,trans-alpha-Farnesene	1503	0.09%	
49.703	delta-Cadinene	1516	0.05%	
51.476	alpha-Elemol	1546	0.01%	
62.797	alpha-Sinensal	1747	0.02%	

Total Identified Compounds **99.98 %**

