



Essential Oil University

GC/MS Report

Item	Lot
Pink Grapefruit EO CP <i>Citrus paradisi</i>	5B
Date	Analyst
6/27/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Pink Grapefruit EO CP, meets the expected chemical profile for authentic essential oil of *Citrus paradisi*. 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:** Pink Grapefruit EO CP**Botanical Name:** Citrus paradisi**Lot Number:** 5B**Production Method:** Cold Press**Sample Type:** EO - Single**Country of Origin:** USA**Analysis Date:** 6/27/2025**Manufacture Date:** June 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

+95.56

1.47536

0.85200



Ret. Time	Component	Ret. Idx.	Conc. %	
11.608	alpha-Thujene	923	0.01%	
12.007	alpha-Pinene	930	0.58%	
14.140	Sabinene	970	0.44%	
14.435	beta-Pinene	975	0.09%	
15.064	Myrcene	987	1.8%	
15.909	Octanal	1002	0.36%	
16.111	alpha-Phellandrene	1005	0.04%	
17.249	para-Cymene	1022	0.02%	
17.641	Limonene	1028	94.66%	IFRA
17.700	beta-Phellandrene	1029	0.19%	
18.609	trans-beta-Ocimene	1043	0.07%	
19.391	gamma-Terpinene	1055	0.01%	
20.189	1-Octanol	1068	0.02%	
21.165	Terpinolene	1083	0%	
22.121	Linalool	1098	0.07%	IFRA
22.482	Nonanal	1103	0.05%	
23.608	trans-p-Mentha-2,8-dienol	1119	0.01%	
24.361	cis-Limonene oxide	1130	0.01%	
24.605	Unidentified	1134	0.01%	
24.663	trans-Limonene oxide	1135	0.01%	
25.705	Citronellal	1150	0.05%	IFRA
28.648	alpha-Terpineol	1193	0.04%	
29.436	Decanal	1204	0.22%	
29.724	Octyl acetate	1208	0.03%	
31.578	Neral	1236	0.03%	IFRA
33.593	Geranial	1265	0.06%	
34.118	Perillaldehyde	1273	0.01%	IFRA
40.706	alpha-Copaene	1373	0.09%	
40.891	Geranyl acetate	1375	0.01%	
41.497	beta-Cubebene	1385	0.07%	
41.602	beta-Elemene	1386	0.02%	
42.931	Dodecanal	1407	0.01%	
43.494	beta-Caryophyllene	1416	0.52%	
45.616	Unidentified	1450	0.01%	
45.736	alpha-Humulene	1452	0.03%	
47.331	Germacrene D	1477	0.05%	
48.211	Bicyclogermacrene	1492	0.02%	
49.603	delta-Cadinene	1515	0.08%	
51.376	alpha-Elemol	1545	0.02%	
65.478	Nootkatone	1797	0.06%	IFRA



Ret. Time	Component	Ret. Idx.	Conc. %	
80.930	Ostole	2116	0.01%	
84.989	Unidentified	2208	0.01%	
85.410	Unidentified	2218	0.03%	
100.930	Aurapten	2606	0.08%	

Total Identified Compounds **99.95 %**

