



Essential Oil University

GC/MS Report

Item	Lot
Pink Grapefruit EO CP, Pure & Natural <i>Citrus paradisi</i>	8A
Date	Analyst
9/2/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Pink Grapefruit EO CP, Pure & Natural, 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, Pure & Natural**Botanical Name:** Citrus paradisi**Lot Number:** 8A**Production Method:** Cold Press**Sample Type:** EO - Single**Country of Origin:** USA**Analysis Date:** 9/2/2025**Manufacture Date:** August 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

+95.16

1.47526

0.85200



Ret. Time	Component	Ret. Idx.	Conc. %	
11.591	alpha-Thujene	923	0%	
11.981	alpha-Pinene	930	0.62%	
14.110	Sabinene	969	0.63%	
14.405	beta-Pinene	974	0.06%	
15.033	Myrcene	986	2.09%	
15.875	Octanal	1001	0.51%	
16.078	alpha-Phellandrene	1004	0.04%	
17.225	para-Cymene	1022	0%	
17.628	Limonene	1028	93.9%	IFRA
17.680	beta-Phellandrene	1029	0.2%	
18.579	trans-beta-Ocimene	1043	0.08%	
20.154	1-Octanol	1067	0.01%	
22.080	Linalool	1097	0.09%	IFRA
22.443	Nonanal	1102	0.06%	
23.002	trans-4,8-Dimethyl-nona-1,3,7-triene	1110	0%	
24.322	cis-Limonene oxide	1130	0.01%	
24.616	trans-Limonene oxide	1134	0%	
25.658	Citronellal	1149	0.05%	IFRA
28.601	alpha-Terpineol	1192	0.05%	
29.388	Decanal	1203	0.24%	
29.677	Octyl acetate	1208	0.03%	
31.530	Neral	1235	0.03%	IFRA
31.928	Carvone	1241	0%	
32.333	Linalyl acetate	1247	0.01%	
33.545	Geranial	1265	0.06%	IFRA
34.074	Perillaldehyde	1272	0.01%	IFRA
36.281	Undecenal	1305	0.01%	
38.763	Unidentified	1343	0.01%	
40.656	alpha-Copaene	1372	0.08%	
40.849	Geranyl acetate	1375	0.02%	
41.447	beta-Cubebene	1384	0.07%	
41.553	beta-Elemene	1385	0.02%	
42.894	Dodecanal	1406	0.01%	
43.443	beta-Caryophyllene	1415	0.52%	
45.564	trans-beta-Farnesene	1449	0.02%	
45.683	alpha-Humulene	1451	0.03%	
47.272	Germacrene D	1476	0.05%	
48.165	Bicyclogermacrene	1491	0.02%	
48.364	alpha-Murolene	1494	0.01%	
49.552	delta-Cadinene	1514	0.08%	



Ret. Time	Component	Ret. Idx.	Conc. %	
51.328	Elemol	1544	0.02%	
52.999	Germacren D-4-ol	1572	0.01%	
53.285	Caryophyllene oxide	1577	0.01%	
59.636	beta-Sinensal	1689	0.01%	
65.426	Nootkatone	1796	0.05%	IFRA
80.877	Ostole	2115	0.01%	
84.955	Isogeijerin	2207	0.02%	
85.367	Unidentified furanocoumarin	2217	0.07%	
100.882	Aurapten	2605	0.08%	

Total Identified Compounds **99.93 %**



TIC
32,849,932

