



Essential Oil University

GC/MS Report

Item	Lot
Orange EO CP Blood	1J
<i>Citrus sinensis</i>	
Date	Analyst
8/29/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Orange EO CP Blood, meets the expected chemical profile for authentic essential oil of *Citrus sinensis*. 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:** Orange EO CP Blood**Botanical Name:** Citrus sinensis**Lot Number:** 1J**Production Method:** Cold Press**Sample Type:** EO - Single**Country of Origin:** Italy**Analysis Date:** 8/29/2025**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

+95.12

1.47360

0.84919



Ret. Time	Component	Ret. Idx.	Conc. %	
11.643	alpha-Thujene	924	0.01%	
12.042	alpha-Pinene	931	0.54%	
14.176	Sabinene	970	0.29%	
14.474	beta-Pinene	976	0.07%	
15.100	Myrcene	987	1.71%	
15.945	Octanal	1002	0.29%	
16.147	alpha-Phellandrene	1005	0.04%	
16.288	delta-3-Carene	1008	0.19%	
17.290	para-Cymene	1023	0.03%	
17.692	Limonene	1029	94.03%	IFRA
17.745	beta-Phellandrene	1030	0.2%	
18.649	trans-beta-Ocimene	1044	0.01%	
19.429	gamma-Terpinene	1056	0.05%	
20.223	1-Octanol	1068	0.05%	
21.209	Terpinolene	1083	0.05%	
22.157	Linalool	1098	0.79%	IFRA
22.524	Nonanal	1104	0.04%	
23.646	trans-para-Mentha-2,8-dienol	1120	0.03%	
24.399	cis-Limonene oxide	1131	0.04%	
24.665	cis-para-Mentha-2,8-dien-1-ol	1135	0.02%	
24.693	trans-Limonene oxide	1135	0.03%	
25.743	Citronellal	1150	0.04%	IFRA
27.687	Terpinen-4-ol	1179	0.02%	
28.687	alpha-Terpineol	1193	0.16%	
29.024	Unidentified	1198	0.01%	
29.473	Decanal	1205	0.43%	
29.764	Octyl acetate	1209	0.03%	
30.313	trans-Carveol	1217	0.02%	
30.665	Unidentified	1222	0.01%	
30.833	Citronellol	1225	0.05%	IFRA
31.212	cis-Carveol	1230	0.01%	
31.611	Neral	1236	0.05%	IFRA
32.010	Carvone	1242	0.03%	IFRA
32.437	Nerol	1248	0.01%	
33.627	Geranial	1266	0.09%	IFRA
33.969	1-Decanol	1271	0.02%	
34.151	Perillaldehyde	1274	0.02%	IFRA
35.154	Carvacrol	1288	0.03%	
36.366	Undecenal	1306	0.01%	
38.768	Unidentified	1343	0.01%	



Ret. Time	Component	Ret. Idx.	Conc. %	
38.858	Unidentified	1344	0.01%	
39.656	Neryl acetate	1357	0.01%	
40.748	alpha-Copaene	1373	0.04%	
40.928	Geranyl acetate	1376	0.01%	
41.537	beta-Cubebene	1385	0.03%	
41.643	beta-Elemene	1387	0.02%	
42.984	Dodecanal	1408	0.05%	
43.539	beta-Caryophyllene	1417	0.03%	
44.188	beta-Copaene	1427	0.03%	
47.365	Germacrene D	1478	0.01%	
48.074	Valencene	1489	0.12%	
48.292	Unidentified	1493	0.01%	
48.460	Unidentified	1496	0.01%	
49.649	delta-Cadinene	1515	0.04%	
51.416	Elemol	1545	0.01%	
53.401	Humulene epoxide II	1579	0.01%	
59.730	beta-Sinensal	1690	0.01%	
82.575	Unidentified	2153	0.01%	

Total Identified Compounds **99.95 %**



TIC
26,131,302

