



Essential Oil University

GC/MS Report

Item	Lot
Bergamot EO CP <i>Citrus aurantium bergamia</i>	5N
Date	Analyst
7/11/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Bergamot EO CP, meets the expected chemical profile for authentic essential oil of *Citrus aurantium bergamia*. 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:** Bergamot EO CP**Botanical Name:** Citrus aurantium bergamia**Lot Number:** 5N**Production Method:** Cold Press**Sample Type:** EO - Single**Country of Origin:** Italy**Analysis Date:** 7/11/2025**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

+35.04

1.46844

0.87500



Ret. Time	Component	Ret. Idx.	Conc. %	
12.180	Unidentified	917	0%	
12.337	alpha-Thujene	919	0.35%	
12.757	alpha-Pinene	927	1.23%	
13.680	Camphene	943	0.03%	
14.965	Sabinene	966	1.04%	
15.287	beta-Pinene	971	5.56%	
15.642	6-Methyl hept-5-en-2-one	977	0.01%	
15.905	Myrcene	982	1.56%	
16.767	Octanal	997	0.05%	
16.993	alpha-Phellandrene	1001	0.04%	
17.319	Hexyl acetate	1006	0.01%	
17.662	alpha-Terpinene	1011	0.21%	
18.152	para-Cymene	1018	0.23%	
18.557	Limonene	1025	39.85%	IFRA
18.622	beta-Phellandrene	1026	0.15%	
18.687	1,8-Cineole	1027	0.04%	
18.852	cis-beta-Ocimene	1029	0.13%	
19.540	trans-beta-Ocimene	1039	0.41%	
20.370	gamma-Terpinene	1052	8.05%	
21.139	trans-Sabinene hydrate	1063	0.04%	
22.166	Terpinolene	1079	0.4%	
23.146	Linalool	1093	5.84%	IFRA
23.485	Nonanal	1099	0.03%	
23.943	Unidentified	1105	0.01%	
24.057	Unidentified	1107	0.01%	
26.747	Citronellal	1145	0.01%	IFRA
28.740	Terpinen-4-ol	1174	0.03%	
29.737	alpha-Terpineol	1188	0.11%	
30.516	Decanal	1199	0.07%	
30.796	Octyl acetate	1203	0.17%	
31.487	Unidentified	1213	0.01%	
31.727	Nerol	1217	0.05%	
32.209	Unidentified	1224	0.01%	
32.667	Neral	1231	0.21%	IFRA
33.095	Unidentified	1237	0.02%	
33.581	Linalyl acetate	1244	29.51%	
34.691	Geranial	1260	0.34%	IFRA
35.858	Isobornyl acetate	1277	0.02%	
37.449	Undecanal	1300	0.01%	
37.579	Nonyl acetate	1302	0.03%	



Ret. Time	Component	Ret. Idx.	Conc. %	
38.306	Methyl geranate	1313	0.01%	
38.976	Linalyl propionate	1323	0.04%	
39.273	delta-Elemene	1328	0.02%	
39.986	alpha-Terpinyl acetate	1338	0.22%	
40.179	Unidentified	1341	0.03%	
40.756	Neryl acetate	1350	0.85%	
42.042	Geranyl acetate	1370	0.82%	
42.816	beta-Elemene	1381	0.01%	
44.087	Decyl acetate	1400	0.06%	
44.340	cis-alpha-Bergamotene	1405	0.02%	
44.755	beta-Caryophyllene	1411	0.36%	
45.599	trans-alpha-Bergamotene	1425	0.37%	
45.804	Unidentified	1428	0.02%	
46.825	trans-beta-Farnesene	1444	0.07%	
47.002	alpha-Humulene	1447	0.03%	
47.237	beta-Santalene	1451	0.01%	
48.380	Unidentified	1469	0.01%	
48.595	Germacrene D	1472	0.06%	
48.767	trans-beta-Bergamotene	1475	0.02%	
49.485	Bicyclogermacrene	1486	0.02%	
49.794	cis-alpha-Bisabolene	1491	0.04%	
49.998	Unidentified	1495	0.01%	
50.242	beta-Bisabolene	1498	0.53%	
52.186	trans-alpha-Bisabolene	1531	0.01%	
53.285	Germacrene B	1549	0%	
53.386	Unidentified	1551	0.02%	
54.230	Unidentified	1565	0.01%	
59.115	Unidentified	1650	0.01%	
59.822	Unidentified	1662	0.02%	
60.645	alpha-Bisabolol	1677	0.03%	IFRA
66.785	Nootkatone	1790	0.07%	IFRA
70.189	Unidentified	1855	0%	
74.100	Unidentified	1933	0.01%	
75.230	Citropten	1956	0.15%	
78.749	Bergaptene	2030	0.14%	IFRA
79.024	Unidentified	2036	0.03%	
103.229	Unidentified	2615	0.02%	

Total Identified Compounds **99.78 %**

