



Essential Oil University

GC/MS Report

Item	Lot
Lantana EO	6H

Lantana camara

Date	Analyst
3/14/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Lantana EO, meets the expected chemical profile for authentic essential oil of *Lantana camara*. 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:** Lantana EO**Botanical Name:** Lantana camara**Lot Number:** 6H**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** France**Analysis Date:** 3/14/2025**Manufacture Date:** March 2022

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



Ret. Time	Component	Ret. Idx.	Conc. %	
11.605	Tricyclene	919	0.01%	
11.753	alpha-Thujene	922	0.32%	
12.159	alpha-Pinene	929	3.55%	
12.772	Unidentified	941	0.02%	
13.050	Camphene	946	1.27%	
14.317	Sabinene	969	10.54%	
14.608	beta-Pinene	974	2.78%	
15.228	Myrcene	985	0.44%	
15.662	Octan-3-ol	993	0.04%	
16.281	alpha-Phellandrene	1004	0.34%	
16.425	delta-3-Carene	1006	2.21%	
16.933	alpha-Terpinene	1014	0.23%	
17.414	para-Cymene	1021	0.58%	
17.708	Limonene	1026	1.59%	IFRA
17.825	beta-Phellandrene	1027	0.1%	
17.890	1,8-cineole	1028	3.58%	
18.108	cis-beta-Ocimene	1032	0.03%	
18.782	trans-beta-Ocimene	1042	0.42%	
19.569	Terpinene isomer	1054	0.5%	
19.569	gamma-Terpinene	1054	0.96%	
20.341	trans-Sabinene hydrate	1066	0.11%	
21.100	Terpinolene isomer	1078	0.03%	
21.359	Terpinolene	1082	0.27%	
22.318	Linalool	1096	2.97%	IFRA
23.995	trans-Pinocarvol	1121	0.03%	
25.104	Unidentified	1137	0.02%	
25.195	cis-para-Menth-2-en-1-ol	1138	0.04%	
25.429	trans-Verbenol	1142	0.04%	
25.538	Camphor	1143	0.47%	
26.616	trans-para-Menth-2-en-1-ol	1159	0.02%	
27.247	Borneol	1168	0.36%	
27.849	Terpinen-4-ol	1177	0.63%	
28.849	alpha-Terpineol	1191	0.18%	
38.069	Elemene isomer	1328	0.12%	
38.291	delta-Elemene	1331	0.04%	
39.063	alpha-Cubenene	1343	0.12%	
40.933	alpha-Copaene	1371	0.61%	
41.342	Elemene isomer	1378	0.05%	
41.450	beta-Bourbonene	1379	0.08%	
41.724	beta-Cubebene	1383	0.93%	



Ret. Time	Component	Ret. Idx.	Conc. %	
41.829	beta-Elemene	1385	1.09%	
42.412	Isolongifolene analog	1394	0.05%	
42.673	alpha-Funebrene	1398	0.05%	
42.824	Italicene	1400	0.05%	
42.949	Cyperene	1402	0.05%	
43.766	beta-Caryophyllene	1415	15.47%	
44.144	Unidentified	1421	0.04%	
44.379	beta-Copaene	1425	1.81%	
44.723	alpha-Guaiene	1431	0.21%	
45.574	trans-Murrola-3,5-diene	1444	0.06%	
45.834	trans-beta-Farnesene	1448	0.77%	
45.991	alpha-Humulene	1451	7.48%	
46.243	Alloaromodendrene	1455	0.26%	
47.009	cis-Murrola-4(14),5-diene	1467	0.1%	
47.187	Muurolene isomer	1470	0.51%	
47.371	gamma-Curcumene	1473	0.27%	
47.566	Germacrene D	1476	1.26%	
47.719	Unidentified	1479	0.06%	
48.049	beta-Selinene	1484	0.52%	
48.220	trans-Muurolo-4(14),5-diene	1487	0.12%	
48.458	Bicyclogermacrene	1490	3.18%	
48.646	alpha-Muurolene	1494	0.99%	
49.003	trans,trans-alpha-Farnesene	1499	0.06%	
49.225	beta-Bisabolene	1503	1.52%	
49.329	beta-Curcumene	1505	0.33%	
49.522	gamma-Cadinene	1508	0.07%	
49.646	Cubebol	1510	1.19%	
49.831	delta-Cadinene	1513	0.9%	
50.040	trans-Calamenene	1517	0.21%	
50.676	trans-Cadina-1,4-diene	1527	0.06%	
50.920	Unidentified	1532	0.04%	
51.172	trans-alpha-Bisabolene	1536	0.13%	
51.584	Elemol	1543	0.06%	
51.754	Unidentified	1546	0.15%	
52.109	Davanone isomer	1552	0.18%	
52.218	Germacrene B	1553	0.24%	
52.375	trans-Nerolidol	1556	1.56%	
53.274	Spathulenol	1571	0.54%	
53.434	Davanone	1574	15.92%	
53.581	Caryophyllene oxide	1576	1.21%	



Ret. Time	Component	Ret. Idx.	Conc. %	
53.730	Unidentified	1579	0.05%	
53.830	Unidentified	1581	0.06%	
53.925	Unidentified	1582	0.06%	
54.316	Viridiflorol	1589	0.22%	
54.569	Unidentified	1593	0.07%	
54.763	Unidentified	1596	0.13%	
54.898	Ledol	1599	0.06%	
55.163	Unidentified	1603	0.47%	
55.200	Unidentified	1604	0.31%	
55.550	Unidentified	1610	0.05%	
55.648	Unidentified	1612	0.16%	
56.147	Unidentified	1621	0.07%	
56.239	Epicubenol	1622	0.31%	
56.449	Unidentified	1626	1.78%	
56.580	Unidentified	1628	0.3%	
56.745	Unidentified	1631	0.09%	
57.774	delta-Cadinol	1650	0.21%	
57.939	Selina-6-en-4-ol	1653	0.05%	
60.802	beta-Davanone-2-ol	1704	0.16%	

Total Identified Compounds **96.08 %**

