



Essential Oil University

GC/MS Report

Item	Lot
Lime EO Distilled, Pure & Natural <i>Citrus aurantifolia</i>	7H
Date	Analyst
11/20/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Lime EO Distilled, Pure & Natural, meets the expected chemical profile for authentic essential oil of *Citrus aurantifolia*. 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: Lime EO Distilled, Pure & Natural
Botanical Name: Citrus aurantifolia
Lot Number: 7H
Production Method: Steam distilled

Sample Type: EO - Single
Country of Origin: Mexico
Analysis Date: 11/20/2025
Manufacture Date: October 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	METHOD	RESULTS
Optical Rotation @20°C	USP[781]	+38.20
Refractive Index @20°C	USP[831]	1.47584
Specific Gravity @20°C	USP[841]	0.86004



Ret. Time	Component	Ret. Idx.	Conc. %	
6.000	Limediene isomer	749	0.01%	
6.100	Limediene isomer	753	0.08%	
6.488	Limediene isomer	770	0.01%	
6.923	Octane	789	0%	
10.079	Cyclofenchene	871	0.01%	
10.835	Nonane	890	0.02%	
11.129	Bornylene	897	0.02%	
12.046	Tricyclene	914	0.03%	
12.195	alpha-Thujene	917	0.02%	
12.610	alpha-Pinene	924	1.17%	ALLERGEN
13.355	Unidentified	937	0.01%	
13.426	alpha-Fenchene	939	0.2%	
13.525	Camphene	940	0.5%	
14.630	Bois de Rose oxide	960	0.2%	
14.803	Sabinene	963	0.17%	
15.113	beta-Pinene	968	2.24%	ALLERGEN
15.613	3-para-Menthene	977	0.02%	
15.739	Myrcene	979	1.38%	PROP. 65
16.109	Unidentified	986	0.03%	
16.671	Pseudolimonene	996	0.06%	
16.733	Unidentified	997	0.05%	
16.817	alpha-Phellandrene	998	0.39%	
16.967	delta-3-Carene	1001	0.01%	
17.028	Unidentified	1002	0.01%	
17.343	1,4-Cineole	1006	2.04%	
17.486	alpha-Terpinene	1008	2.88%	ALLERGEN
17.973	para-Cymene	1016	2.08%	
18.354	Limonene	1022	43.61%	ALLERGEN IFRA
18.427	beta-Phellandrene	1023	0.25%	
18.491	1,8-Cineole	1024	1.67%	
18.670	cis-beta-Ocimene	1026	0.16%	
19.233	2,2-Dimethyl-5-(1-methylpropenyl)-tetrahydrofuran	1035	0.15%	
19.359	trans-beta-Ocimene	1037	0.4%	
20.187	gamma-Terpinene	1049	13.82%	
21.002	Unidentified	1061	0.04%	
21.097	Pinol	1063	0.01%	
22.000	Terpinolene	1076	11.5%	ALLERGEN
22.288	para-Cymenene	1081	0.21%	
22.924	Linalool	1090	0.09%	ALLERGEN IFRA
22.970	Unidentified	1091	0.02%	



Ret. Time	Component	Ret. Idx.	Conc. %	
23.290	Nonanal	1096	0.03%	
23.834	1,3,8-para-Menthatriene	1104	0.05%	
24.267	endo-Fenchol	1110	0.48%	
24.878	allo-Ocimene	1119	0.01%	
25.408	Terpin-3-en-1-ol	1126	0.56%	
25.719	Unidentified	1131	0.03%	
25.904	Epoxyterpinolene	1133	0.05%	
26.346	cis-beta-Terpineol	1140	0.58%	ALLERGEN
26.625	Unidentified	1144	0.02%	
27.241	Benzyl acetate	1152	0.02%	
27.327	Isoborneol	1154	0.04%	
27.426	Unidentified	1155	0.02%	
27.610	cis-beta-Terpineol	1158	0.13%	ALLERGEN
27.802	delta-Terpineol	1160	0.04%	ALLERGEN
27.915	Borneol	1162	0.47%	
28.204	alpha-Pinene oxide	1166	0.02%	
28.524	Terpinen-4-ol	1171	0.4%	
28.944	para-Cymen-8-ol	1177	0.05%	
29.551	alpha-Terpineol	1185	6.44%	ALLERGEN
29.860	gamma-Terpineol	1190	1.01%	ALLERGEN
30.312	Decanal	1196	0.07%	
31.678	Citronellol	1216	0.01%	ALLERGEN IFRA
32.463	Neral	1228	0.04%	ALLERGEN IFRA
33.294	Unidentified	1240	0.02%	
34.485	Geranial	1257	0.05%	ALLERGEN IFRA
34.808	Unidentified	1262	0.01%	
34.923	cis-Ascaridol glycol	1263	0.01%	
38.082	Unidentified	1310	0.01%	
39.046	delta-Elemene	1324	0.02%	
40.548	Neryl acetate	1347	0.01%	
41.832	Geranyl acetate	1366	0.02%	ALLERGEN
42.597	beta-Elemene	1378	0.02%	
42.743	Unidentified	1380	0.02%	
43.890	Dodecanal	1397	0.03%	
44.117	cis-alpha-Bergamotene	1401	0.02%	
44.523	beta-Caryophyllene	1407	0.65%	ALLERGEN
45.010	trans-Cinnamyl acetate	1415	0.01%	
45.135	gamma-Elemene	1417	0.02%	
45.373	trans-alpha-Bergamotene	1421	0.65%	
45.581	Unidentified	1424	0.01%	



Ret. Time	Component	Ret. Idx.	Conc. %	
46.608	trans-beta-Farnesene	1441	0.04%	
46.774	alpha-Humulene	1443	0.04%	
47.005	epi-beta-Santalene	1447	0.02%	
47.882	Selina-4,11-diene	1461	0.06%	
48.159	Unidentified	1465	0.01%	
48.245	Unidentified	1467	0.01%	
48.556	Unidentified	1472	0.07%	
48.740	trans-Cadina-1(6),4-diene	1475	0.13%	
48.862	beta-Selinene	1476	0.02%	
49.297	alpha-Selinene	1483	0.04%	
49.575	cis-alpha-Bisabolene	1488	0.06%	
49.798	trans-trans-alpha-Farnesene	1491	0.38%	
50.016	beta-Bisabolene	1495	0.98%	
50.203	cis-gamma-Bisabolene	1498	0.04%	
50.635	delta-Cadinene	1505	0.03%	
50.974	beta-Sesquiphellandrene	1511	0.01%	
51.145	trans-gamma-Bisabolene	1514	0.01%	
51.484	trans-Cadina-1(6),4-diene	1519	0.11%	
51.750	Selina-4(15),7(11)-diene	1524	0.02%	
51.972	Unidentified	1527	0.03%	
52.030	Selina-3,7(11)-diene	1528	0.03%	
54.027	Caryophyllene alcohol	1562	0.03%	
57.291	gamma-Eudesmol	1617	0.02%	
57.701	Unidentified	1625	0.01%	
60.295	epi-alpha-Bisabolol	1671	0.01%	IFRA
60.423	alpha-Bisabolol	1673	0.01%	IFRA
64.643	Unidentified	1750	0.05%	

Total Identified Compounds **99.51 %**



TIC
28,932,595

