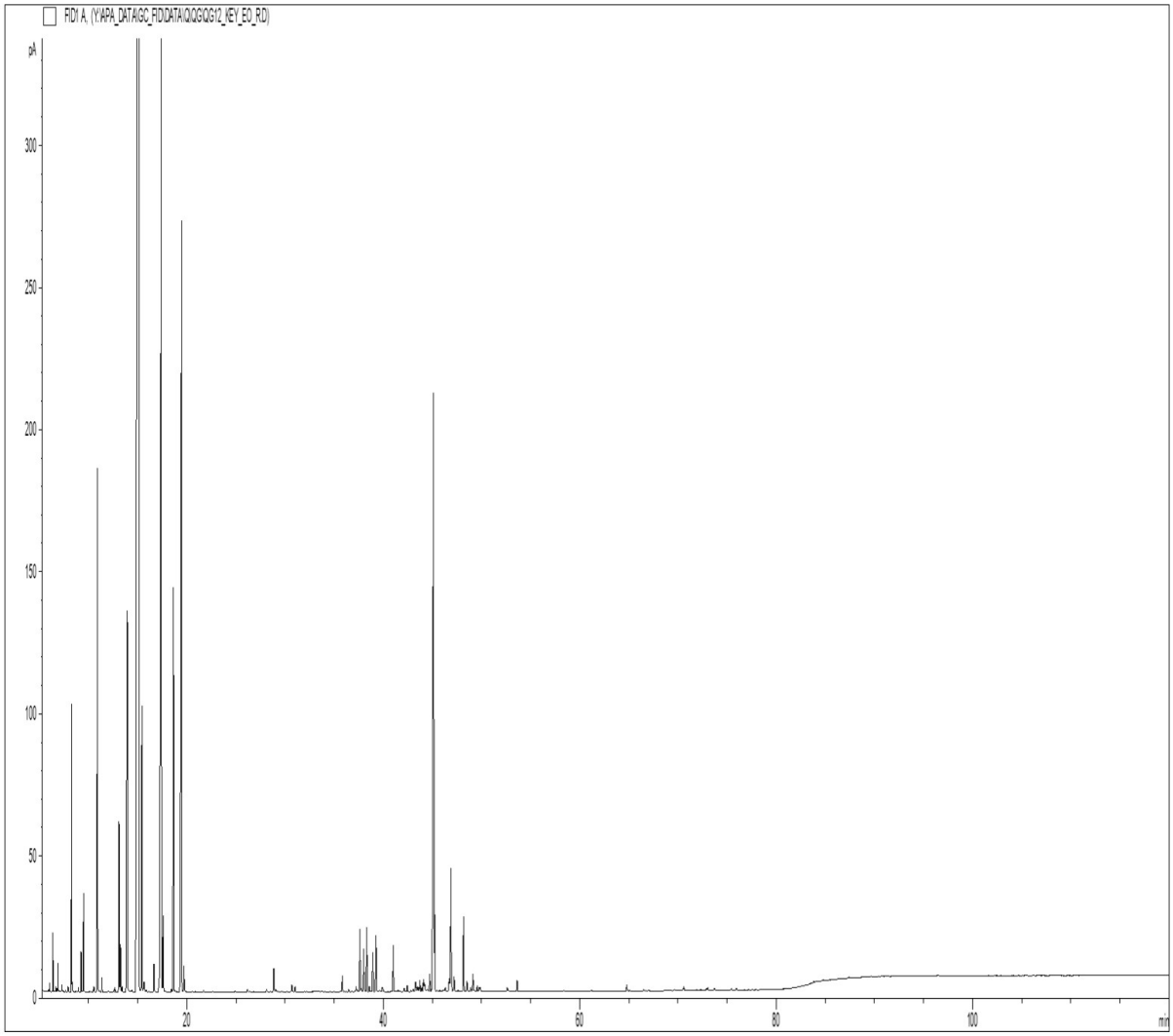
MALIKA ESSENTIALS

GC/MS ANALYSIS REPORT

Product Name	Lime Essential Oil (Key Lime, Mexico)
Botanical Name	Citrus aurantifolia
Analysis Date	October 8, 2026

Note: This GC/MS report is a representative analysis of this product. Due to volume turnover, it is not specific to an individual lot; specific lots may vary slightly, as is the case with natural products. The lot-specific quality document for each batch is its Certificate of Analysis.

Chromatogram



Identified Compounds

Peak	RT (min)	Component name	%
1	6.01	NONANE	0.03
2	6.37	ETHANOL	0.24
3	6.67	TERPENIC COMPOUND	0.03
4	6.87	TERPENIC COMPOUND	0.12
5	7.28	TERPENIC COMPOUND	0.04
6	7.92	TRICYCLENE	0.02
7	8.26	alpha-PINENE	1.26
8	8.33	alpha-THUYENE	0.04
9	8.96	TERPENIC COMPOUND	0.02
10	9.24	alpha-FENCHENE	0.20
11	9.50	CAMPHENE	0.50
12	10.54	TERPENIC COMPOUND	0.06
13		beta-PINENE	
14	10.91	OXIDE COMPOUND	3.29
15	11.37	SABINENE	0.08
16	12.66	TERPENIC COMPOUND	0.04
17	13.11	beta-MYRCENE	1.16
18	13.26	alpha-PHELLANDRENE	0.35
19	13.43	psi-LIMONENE	0.04

20		alpha-TERPINENE	
21	13.94	1,4-CINEOLE	4.32
22	14.43	1,8-CINEOLE, 2,3-DEHYDRO-	0.02
23	15.15	LIMONENE	48.38
24		1,8-CINEOLE	
25	15.44	beta-PHELLANDRENE	1.72
26	15.62	TERPENIC COMPOUND	0.06
27	15.69	1,3,8-p-MENTHATRIENE	0.06
28	15.88	COMPOUND Mw=154	0.01
29	16.67	cis-beta-OCIMENE	0.19
30		gamma-TERPINENE	
31	17.41	COMPOUND Mw=154	11.31
32	17.51	MENTHATRIENE ISOMER	0.06
33	17.61	trans-beta-OCIMENE	0.46
34	18.44	3,8-p-MENTHADIENE	0.02
35	18.65	p-CYMENE	2.90
36	19.46	TERPINOLENE	8.24
37	19.71	TERPINOLENE ISOMER	0.18
38	26.17	COMPOUND Mw=134	0.03
39	28.11	COMPOUND Mw=134	0.02
40	28.84	alpha,p-DIMETHYLSTYRENE	0.21
41	29.06	MENTHATRIENE ISOMER	0.03
42	30.69	4,8-TERPINOLENE EPOXIDE	0.07
43		SESQUITERPENE	
44	31.02	delta-ELEMENE	0.05
45	32.93	DECANAL	0.03
46	35.83	LINALOOL	0.13
47	36.48	1-OCTANOL	0.03
48	37.23	alpha-cis-BERGAMOTENE	0.05
49	37.62	TERPINENE-1-OL	0.52
50	37.78	COMPOUND Mw=222	0.04
51	38.00	FENCHOL	0.39
52	38.32	alpha-trans-BERGAMOTENE	0.52
53	38.57	beta-ELEMENE	0.04
54	38.93	beta-CARYOPHYLLENE	0.34
55	39.26	TERPINENE-4-OL	0.46
56	39.62	SESQUITERPENE	0.02
57	39.88	SESQUITERPENE	0.04
58	39.94	SESQUITERPENE	0.03
59	41.01	beta-TERPINEOL	0.37
60	41.51	SESQUITERPENE	0.02
61	41.64	SESQUITERPENE	0.01
62	42.14	ALCOHOL COMPOUND	0.04
63	42.44	beta-SANTALENE	0.05
64	42.82	SESQUITERPENE	0.01
65	43.05	ISOBORNEOL	0.04
66	43.29	delta-TERPINEOL	0.13
67	43.47	alpha-HUMULENE	0.05
68	43.59	ALCOHOL COMPOUND	0.03
69	43.73	SESQUITERPENE	0.10
70	43.92	ALCOHOL COMPOUND	0.04
71	44.09	gamma-SELINENE	0.10
72	44.19	NERAL	0.11
73	44.49	SESQUITERPENE	0.05
74	44.73	SESQUITERPENE	0.17
75	45.11	alpha-TERPINEOL	6.40
76	45.21	gamma-TERPINEOL	0.57

77	45.45	SESQUITERPENE	0.01
78	45.52	ALDEHYD COMPOUND	0.02
79	45.76	GERMACRENE D	0.02
80	46.12	SESQUITERPENE	0.03
81	46.22	MENTHADIENOL ISOMER	0.02
82	46.32	beta-SELINENE	0.05
83		NERYL ACETATE	
84	46.71	alpha-SELINENE	0.14
85	46.88	beta-BISABOLENE	0.97
86	46.90	GERANIAL	0.18
87	47.21	SESQUITERPENE	0.15
88	47.61	beta-CURCUMENE	0.01
89	48.18	E,E-alpha-FARNESENE	0.61
90		GERANYL ACETATE	
91	48.53	delta-CADINENE	0.10
92		1-DECANOL	
93	48.90	SELINADIENE ISOMER	0.04
94	49.13	delta-SELINENE	0.16
95	49.57	trans-alpha-BISABOLENE	0.05
96	49.75	SESQUITERPENE	0.04
97	49.84	SESQUITERPENE	0.05
98	52.63	GERMACRENE B	0.04
99	53.62	p-CYMENE-8-OL	0.11
100	61.18	CARYOPHYLLENE OXIDE	0.01
101	64.79	CARYOPHYLLENOL	0.06
102	65.09	JUNENOL	0.01
103	66.52	cis-1,2-DIHYDROXY-p-MENTH-2-ENE	0.02
104	67.04	AROMATIC COMPOUND	0.02
105	69.29	SESQUITERPENIC COMPOUND	0.01
106	69.65	trans-1,2-DIHYDROXY-p-MENTH-2-ENE	0.02
107		gamma-EUDESMOL	
108	70.58	TERPENIC COMPOUND	0.06
109	71.85	SESQUITERPENIC COMPOUND	0.01
110	72.33	SESQUITERPENIC COMPOUND	0.02
111	72.46	SESQUITERPENIC COMPOUND	0.01
112	72.90	Epi-alpha-BISABOLOL	0.02
113	73.02	alpha-BISABOLOL	0.03
114	73.72	AROMATIC COMPOUND	0.03
115	75.44	CAPRIC ACID	0.02
116	75.95	DIMETHYL METHYLPENTENYL NORBORNANOL	0.02
		TOTAL	**99.90**

Note: Peaks 13 (beta-PINENE), 20 (alpha-TERPINENE), 24 (1,8-CINEOLE), 30 (gamma-TERPINENE), 43 (SESQUITERPENE), 83 (NERYL ACETATE), 90 (GERANYL ACETATE), 92 (1-DECANOL) and 107 (gamma-EUDESMOL) are listed in the source report without a retention time or percentage; they are carried here exactly as shown in the source. The source report states TOTAL 99.90; the transcribed values sum to 99.96 (rounding).

Faithful copy of the GC/MS analysis report. The original document is kept in the MALIKA Essentials archives.