



Certificate of Analysis

Product Name: Lime Essential Oil

Botanic Name: Citrus aurantiumifolia

Lot Number: BPCLEO92025

Origin: Mexico

Expiry Date: September 2028

Properties Specifications Results

Appearance: Yellowish-green to dark green liquid. Complies

Odor: Characteristic fresh, sweet, acidulous, lemon peel-like odor. Complies

Solubility: Soluble in alcohols and oils. Insoluble in water. Complies

Specific Gravity: 0.8480 to 0.8590 @ 20°C 0.8542 @ 20°C

Refractive Index: 1.4700 to 1.4800 @ 20°C 1.4751 @ 20°C

Optical Rotation: +52° - +62° @ 20°C 57.28° @ 20°C

Limonene: 60-69 60.507 %

Neral: 0.83 %

Geranial: 1.41 %

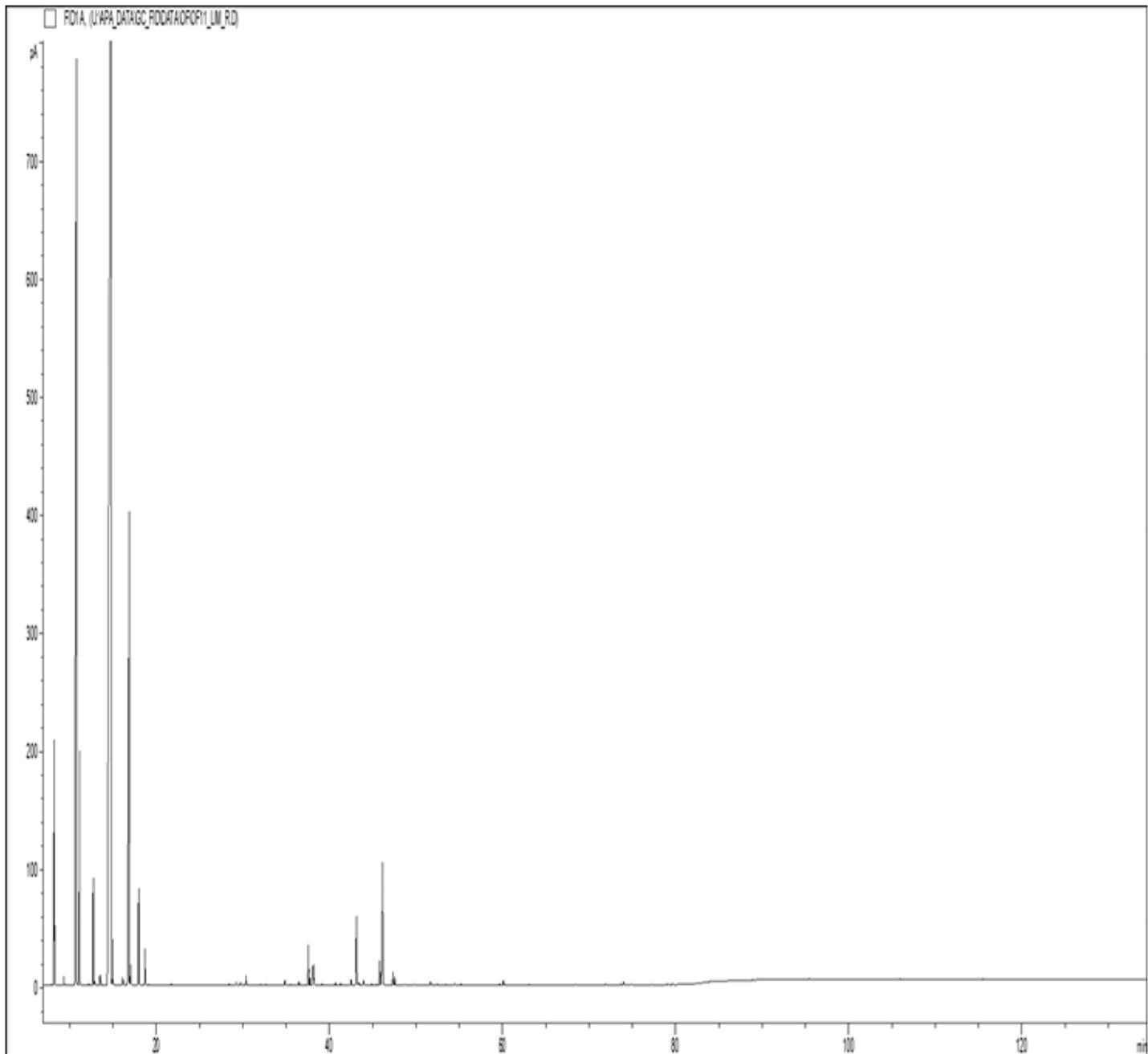
Citral: 2.00%- 3.80 % 2.99

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GCMS REPORT Lime Essential Oil Italy September 2025



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PEAK	RT (MIN)	COMPOUND NAME	%
1	8.19	alpha-PINENE	2.37
2	8.24	alpha-THUYENE	0.48
3	9.32	CAMPHENENE	0.10
4	10.77	beta-PINENE	18.55
5	11.13	SABINENE	2.34
6	12.19	delta3-CARENE	0.02
7	12.73	beta-MYRCENE	1.39
8	12.87	alpha-PHELLANDRENE	0.06
9	13.02	psi-LIMONENE	0.01
10	13.51	alpha-TERPINENE	0.20
11	14.78	LIMONENE	53.78
12	14.98	beta-PHELLANDRENE	0.46
13		1,8-CINEOLE	
14	16.13	cis-beta-OCIMENE	0.09
15	16.90	gamma-TERPINENE	11.30
16	17.04	trans-beta-OCIMENE	0.23
17	17.98	p-CYMENE	1.18
18	18.71	TERPINOLENE	0.44
19	21.76	5-HEPTEN-2-ONE, 6-METHYL-	0.02
20	28.45	LIMONENE cis-1,2-EPOXIDE	0.02
21	29.25	LIMONENE trans-1,2-EPOXIDE	0.04
22	29.75	4,8-TERPINOLENE EPOXIDE	0.04
23	30.37	delta-ELEMENE	0.13
24	32.09	DECANAL	0.02
25	32.55	COMPOUND Mw=152	0.01
26	32.71	COMPOUND Mw=152	0.02
27	32.89	PENTADECANE	0.01
28	34.88	LINALOOL	0.08
29	35.04	LIMONENE cis-8,9-EPOXIDE	0.01
30	35.50	LIMONENE trans-8,9-EPOXIDE	0.01

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PEAK	RT (MIN)	COMPOUND NAME	%
31	36.50	alpha-cis-BERGAMOTENE	0.06
32	36.70	alpha-SANTALENE	0.01
33	37.59	alpha-trans-BERGAMOTENE	0.62
34	37.80	beta-ELEMENE	0.11
35	38.14	beta-CARYOPHYLLENE	0.32
36	38.24	TERPINENE-4-OL	0.11
37	39.18	SESQUITERPENE	0.03
38	39.72	cis-p-MENTHA-2,8-DIEN-1-OL	0.01
39	40.72	GERMACRENE A	0.03
40	41.32	beta-SANTALENE	0.03
41	42.49	alpha-HUMULENE	0.09
42	43.15	NERAL	1.11
43	43.25	LAVANDULAL	0.02
44	43.46	Z-beta-FARNESENE	0.04
45	43.96	alpha-TERPINEOL	0.09
46	44.91	GERMACRENE D	0.03
47	45.44	beta-SELINENE	0.02
48	45.82	NERYL ACETATE	0.38
49	46.17	beta-BISABOLENE	0.87
50	46.20	GERANIAL	1.73
51	47.35	E,E-alpha-FARNESENE	0.19
52	47.55	GERANYL ACETATE	0.13
53	47.98	7-epi-alpha-SELINENE	0.01
54	48.74	trans-alpha-BISABOLENE	0.02
55	49.84	NEROL	0.02
56	51.70	GERMACRENE B	0.07
57	52.44	p-CYMENE-8-OL	0.01
58	52.47	GERANIOL	0.02
59	53.42	cis-CARVEOL	0.02
60	54.50	TERPENIC ESTER	0.03

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PEAK	RT (MIN)	COMPOUND NAME	%
61	55.20	TERPENIC ESTER	0.02
62	57.98	AROMATIC COMPOUND	0.01
63	59.67	ISOCARYOPHYLLENE OXIDE	0.02
64	60.14	CARYOPHYLLENE OXIDE	0.09
65	63.08	EPOXY-6,7-HUMULENE	0.01
66	68.47	HEPTADECANAL	0.03
67	71.97	alpha-BISABOLOL	0.01
68	73.64	beta-NOOTKATOL	0.02
69	74.00	trans-LIMONENE-1,2-DIOL	0.05
70	95.48	HERNIARIN	0.03
71	115.50	LIMETTIN	0.02
72	120.01	BERGAPTEN	0.02
		TOTAL	99.94

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