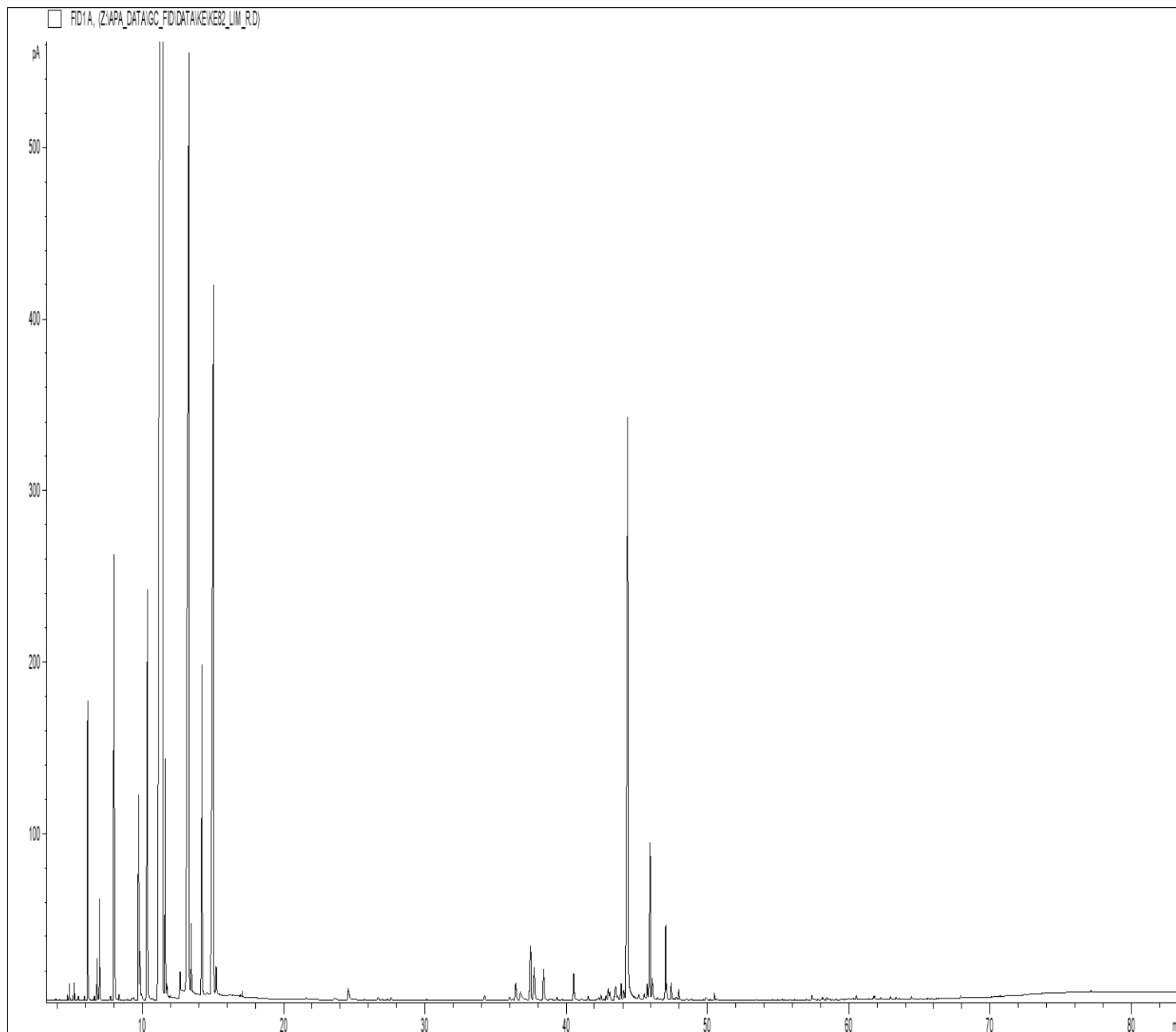


GCMS ANALYSIS

PRODUCT NAME: LIME ESSENTIAL OIL – KEY LIME - 11318

DATE: September 14, 2023



Due to volume turnover, this report is not lot specific, It is representative of the quality of this oil produced by the manufacturer of this product, Specific lots may vary slightly as is the case in natural products,

GCMS ANALYSIS (cont'd.)

PRODUCT NAME: LIME ESSENTIAL OIL – KEY LIME - 11318

Peak	RT (min)	Component name	%
1	4.83	ETHANOL	0.06
2	5.05	ALIPHATIC COMPOUND Mw=94	0.02
3	5.17	ALIPHATIC COMPOUND Mw=94	0.07
4	5.47	TERPENE ISOMER	0.02
5	5.89	TRICYCLENES	0.02
6	6.13	alpha-PINENE	1.30
7	6.14	alpha-THUYENE	0.04
8	6.78	alpha-FENCHENE	0.21
9	6.96	CAMPHERE	0.52
10	7.73	UNDECANE	0.03
11	7.99	beta-PINENE	2.48
12	8.05	DEHYDROXYLINALOOL OXIDE A	0.24
13	8.35	SABINENE	0.04
14	9.32	p-MENTH-2-ENE	0.03
15	9.38	delta3-CARENE	0.02
16	9.72	beta-MYRCENE	1.30
17	9.83	alpha-PHELLANDRENE	0.36
18	9.93	psi-LIMONENE	0.06
19	10.38	1,4-CINEOLE	1.21
20	10.39	alpha-TERPINENE	2.43
21	10.70	1,8-CINEOLE, 2,3-DEHYDRO-	0.02
22	11.47	LIMONENE	50.84
23	11.64	1,8-CINEOLE	1.20
24		beta-PHELLANDRENE	
25	11.73	TERPENIC COMPOUND	0.06
26	11.77	1,3,8-p-MENTHATRIENE	0.04
27	12.68	cis-beta-OCIMENE	0.09
28	13.30	COMPOUND Mw=154	0.06
29	13.31	gamma-TERPINENE	12.45
30	13.32	COMPOUND Mw=134	0.03

Disclaimer & Caution

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: LIME ESSENTIAL OIL – KEY LIME - 11318

Peak	RT (min)	Component name	%
31	13.47	trans-beta-OCIMENE	0.39
32	14.24	p-CYMENE	2.21
33	15.05	TERPINOLENE	8.79
34	15.23	ISOTERPINOLENE	0.21
35	21.60	MENTHATRIENIC COMPOUND	0.03
36	23.62	AROMATIC COMPOUND	0.03
37	24.57	alpha,p-DIMETHYLSTYRENE	0.18
38	25.04	MENTHATRIENIC COMPOUND	0.02
39	26.67	4,8-TERPINOLENE EPOXIDE	0.04
40	26.95	SESQUITERPENE	0.01
41	27.59	delta-ELEMENE	0.03
42	34.21	LINALOOL	0.05
43	35.21	SESQUITERPENE	0.01
44	35.99	alpha-cis-BERGAMOTENE	0.05
45	36.42	TERPINENE-1-OL	0.20
46	36.76	FENCHOL	0.20
47	37.47	alpha-trans-BERGAMOTENE	0.57
48	37.73	beta-CARYOPHYLLENE	0.38
49	38.04	beta-ELEMENE	0.02
50	38.39	TERPINENE-4-OL	0.34
51	38.83	SESQUITERPENE	0.02
52	38.95	SESQUITERPENE	0.02
53	39.34	SESQUITERPENE	0.04
54	39.68	SESQUITERPENE	0.02
55	40.52	cis-beta-TERPINEOL	0.25
56	41.09	SESQUITERPENE	0.02
57	41.56	COMPOUND Mw=122	0.04
58	42.16	E-OCIMENOL	0.01
59	42.29	ISOBORNEOL	0.03
60	42.45	alpha-HUMULENE	0.05

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: LIME ESSENTIAL OIL – KEY LIME - 11318

Peak	RT (min)	Component name	%
61	42.82	delta-TERPINEOL	0.04
62	42.98	gamma-SELINENE	0.10
63	43.08	E-beta-FARNESENE	0.07
64	43.49	NERAL	0.21
65		SESQUITERPENE	
66	43.64	Z-beta-FARNESENE	0.04
67	43.88	SESQUITERPENE	0.13
68	44.06	BORNEOL	0.11
69	44.35	alpha-TERPINEOL	6.12
70	44.60	gamma-TERPINEOL	0.57
71	44.82	SESQUITERPENE	0.05
72	45.13	beta-SELINENE	0.07
73	45.37	SESQUITERPENE	0.02
74	45.52	alpha-SELINENE	0.07
75	45.73	ACETATE DE NERYLE	0.13
76	45.93	beta-BISABOLENE	1.23
77	46.08	GERANIAL	0.22
78	46.44	beta-CURCUMENE	0.02
79	47.03	E,E-alpha-FARNESENE	0.48
80	47.10	ACETATE DE GERANYLE	0.10
81		delta-CADINENE	
82	47.43	delta-SELINENE	0.12
83	47.81	ALIPHATIC COMPOUND	0.03
84	47.96	trans-alpha-BISABOLENE	0.08
85	48.81	NEROL	0.02
86	49.87	GERMACRENE B	0.04
87	50.48	p-CYMENE-8-OL	0.05
88	50.64	GERANIOL	0.02
89	57.38	CARYOPHYLLENOL	0.03
90	57.55	SESQUITERPENIC COMPOUND	0.01

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: LIME ESSENTIAL OIL – KEY LIME - 11318

Peak	RT (min)	Component name	%
91	58.12	SESQUITERPENIC COMPOUND	0.02
92	58.43	SESQUITERPENOL	0.02
93	60.53	gamma-EUDESOL	0.04
94	61.74	Epi-alpha-BISABOLOL	0.02
95	61.80	alpha-BISABOLOL	0.03
96	62.27	SESQUITERPENIC COMPOUND	0.02
97	62.93	DIMETHYL METHYLPENTENYL NORBORNANOL	0.03
98	64.44	AROMATIC COMPOUND	0.02
		TOTAL	99.81

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