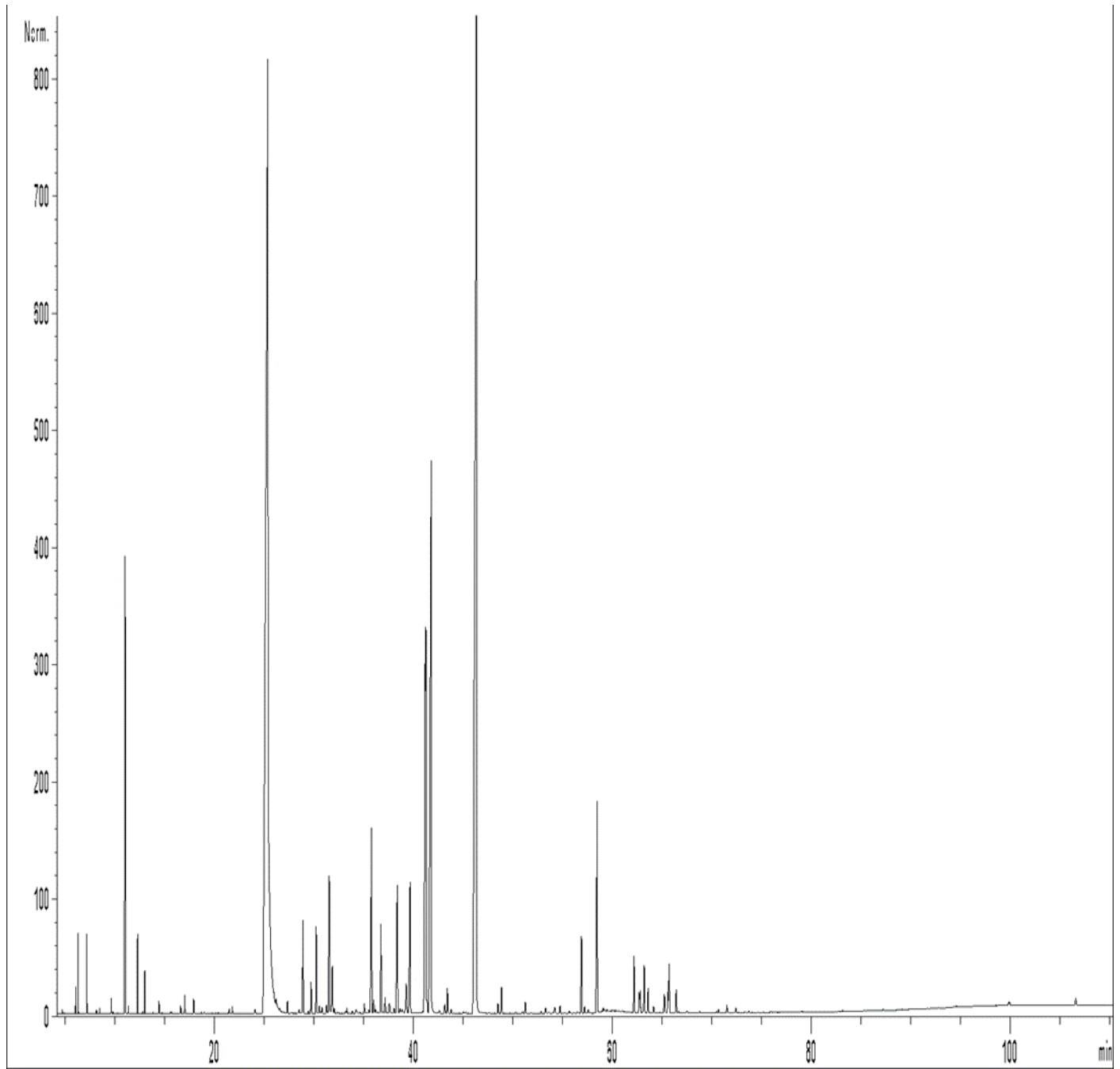


GCMS ANALYSIS

PRODUCT NAME: CITRONELLA ESSENTIAL OIL (JAVA) - 11229

DATE: March 30, 2021



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

PRODUCT NAME: CITRONELLA ESSENTIAL OIL (JAVA) - 11229

Peak	RT (min)	Compound name	%
1	4,15	ACETONE	0,01
2	4,70	CYCLOPENTANE, 1-METHYL-1-METHYLETHYL	0,02
3	6,05	TRICYCLENE	0,09
4	6,28	alpha-PINENE	0,28
5	7,16	CAMPHENE	0,31
6	8,13	beta-PINENE	0,02
7	8,45	SABINENE	0,03
8	9,62	beta-MYRCENE	0,08
9	9,80	alpha-PHELLANDRENE	0,01
10	10,28	alpha-TERPINENE	0,01
11	11,03	LIMONENE	3,09
12	11,36	beta-PHELLANDRENE	0,04
13	12,27	cis-beta-OCIMENE	0,45
14	12,80	gamma-TERPINENE	0,02
15	13,00	trans-beta-OCIMENE	0,25
16	13,85	p-CYMENE	0,01
17	14,43	TERPINOLENE	0,08
18	14,74	OCTANAL	0,01
19	15,58	COMPOUND Mw=140	0,01
20	15,67	COMPOUND Mw=140	0,01
21	16,60	4-NONANONE	0,06
22	17,02	5-HEPTEN-2-ONE, 6-METHYL-	0,13
23	17,90	HEXENYLIC ESTER	0,11
24		ROSE cis-OXIDE	
25	18,69	ROSE trans-OXIDE	0,01
26	18,98	ALLO-OCIMENE	0,01
27	19,79	ROSEFURAN	0,01
28	20,39	PHOTOCITRAL ISOMER	0,01
29	21,35	FENCHONE	0,01
30	21,50	cis-p-MENTHANE-8-OL	0,04

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Peak	RT (min)	Compound name	%
31	21,81	trans-p-MENTHANE-8-OL	0,05
32	23,86	alpha-CUBEBENE	0,01
33	24,08	MENTHONE	0,05
34	25,38	CITRONELLAL	34,54
35	26,21	alpha-COPAENE	0,04
36	26,58	DECANAL	0,02
37	26,97	alpha-BOURBONENE	0,01
38	27,36	beta-BOURBONENE	0,10
39	28,52	beta1-CUBEBENE	0,04
40	28,91	LINALOOL	0,75
41	29,45	1-OCTANOL	0,02
42	29,73	NEOISOPULEGOL	0,28
43	30,24	ISOPULEGOL	0,77
44	30,55	epsilon-CADINENE	0,08
45	30,81	ELEMENE ISOMER	0,07
46	31,28	alpha-trans-BERGAMOTENE	0,09
47	31,55	beta-ELEMENE	1,41
48	31,85	beta-CARYOPHYLLENE	0,57
49	32,05	TERPINENE-4-OL	0,05
50	32,20	COMPOUND Mw = 166	0,02
51	32,40	ISOISOPULEGOL	0,03
52	33,19	CITRONELLYL FORMIATE	0,02
53	33,32	ISOPULEGOL	0,05
54	33,89	CADINA-3,5-DIENE	0,02
55	34,20	PREZIZA-7-ENE	0,04
56	34,24	GERMACRENE A	0,03
57	34,62	FARNESENE ISOMER	0,02
58	35,08	MELONOL	0,09
59	35,52	ZONARENE	0,04
60	35,81	CITRONELLYL ACETATE	2,04

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Peak	RT (min)	Compound name	%
61	36,00	alpha-HUMULENE	0,16
62	36,19	gamma-SELINENE	0,04
63	36,38	E-beta-FARNESENE	0,03
64	36,74	NERAL	0,82
65	36,95	Z-beta-FARNESENE	0,02
66	37,17	gamma-MUUROLENE	0,17
67	37,59	alpha-TERPINEOL	0,07
68	37,61	BORNEOL	0,07
69	38,07	GERANYL FORMIATE	0,05
70	38,39	GERMACRENE D	1,50
71	38,51	SESQUITERPENE	0,01
72	38,65	beta-SELINENE	0,05
73	38,86	alpha-BULNESENE	0,07
74	39,22	alpha-SELINENE	0,05
75	39,30	alpha-MUUROLENE	0,34
76	39,68	GERANIAL	1,47
77	40,89	alpha-FARNESENE	0,02
78	41,20	delta-CADINENE	2,23
79	41,25	GERANYL ACETATE	4,51
80	41,36	gamma-CADINENE	0,13
81	41,78	CITRONELLOL	9,35
82	42,59	CADINA-1,4-DIENE	0,02
83	42,62	gamma-GERANIOL	0,01
84	43,16	alpha-AMORPHENE	0,11
85	43,42	NEROL	0,22
86	43,80	CITRONELLYL BUTYRATE	0,04
87	45,00	GERMACRENE B	0,02
88	45,25	CALAMENENE	0,02
89	46,34	GERANIOL	23,58
90	46,81	E-GERANYL ACETONE	0,02

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Peak	RT (min)	Compound name	%
91	48,51	epi-CUBEBOL	0,09
92	48,87	GERANYL BUTYRATE	0,24
93	50,29	ALIPHATIC ALCOHOL	0,02
94	50,97	SESQUITERPENIC EPOXIDE	0,02
95	51,25	CUBEBOL	0,11
96	52,82	ISOCARYOPHYLLENE EPOXIDE	0,02
97	53,28	CARYOPHYLLENE EPOXIDE	0,06
98	53,62	SESQUITERPENIC EPOXIDE	0,02
99	54,22	SESQUITERPENOL	0,09
100	54,75	METHYLEUGENOL	0,07
101	55,68	SESQUITERPENOL	0,03
102	56,91	GERMACRA-1,5-DIEN-4-OL	0,78
103	57,22	epi-CUBENOL	0,07
104	57,58	CUBENOL	0,04
105	58,47	ELEMOL	3,09
106	59,09	10-epi-gamma-EUDESOL	0,03
107	59,45	GERANYL CAPROATE	0,02
108	61,00	SESQUITERPENOL	0,02
109	62,19	EUGENOL	0,54
110	62,70	gamma-EUDESOL	0,20
111	62,80	T-CADINOL	0,21
112	63,11	AGAROSPIROL	0,02
113	63,21	METHYLISOEUGENOL	0,46
114	63,59	alpha-MUUROLOL	0,25
115	64,15	delta-CADINOL	0,07
116	65,23	alpha-EUDESOL	0,19
117	65,60	beta-EUDESOL	0,21
118	65,72	alpha-CADINOL	0,48
119	66,43	CITRONELLIC ACID	0,22
120	66,67	EUGENYL ACETATE	0,02

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Peak	RT (min)	Compound name	%
121	67,49	FARNESAL	0,03
122	68,77	CITRONELIC ESTER	0,02
123	70,49	ALIPHATIC ESTER	0,02
124	70,69	ISOEUGENOL	0,04
125	71,53	FARNESOL	0,08
126	72,44	GERANYLGERANIOL ISOMER	0,05
127	73,72	SESQUITERPENIC EPOXIDE	0,01
128	75,94	SESQUITERPENOL	0,01
129	79,01	CITRONELIC ESTER	0,01
130	83,18	10-HYDROXYOPLOPANONE	0,02
131	87,25	ALIPHATIC ESTER	0,01
132	94,61	CITRONELIC ESTER	0,01
133	99,91	GERANYLGERANIOL ISOMER	0,08
134	106,62	GERANYLGERANIOL ISOMER	0,11
		TOTAL	99,96

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