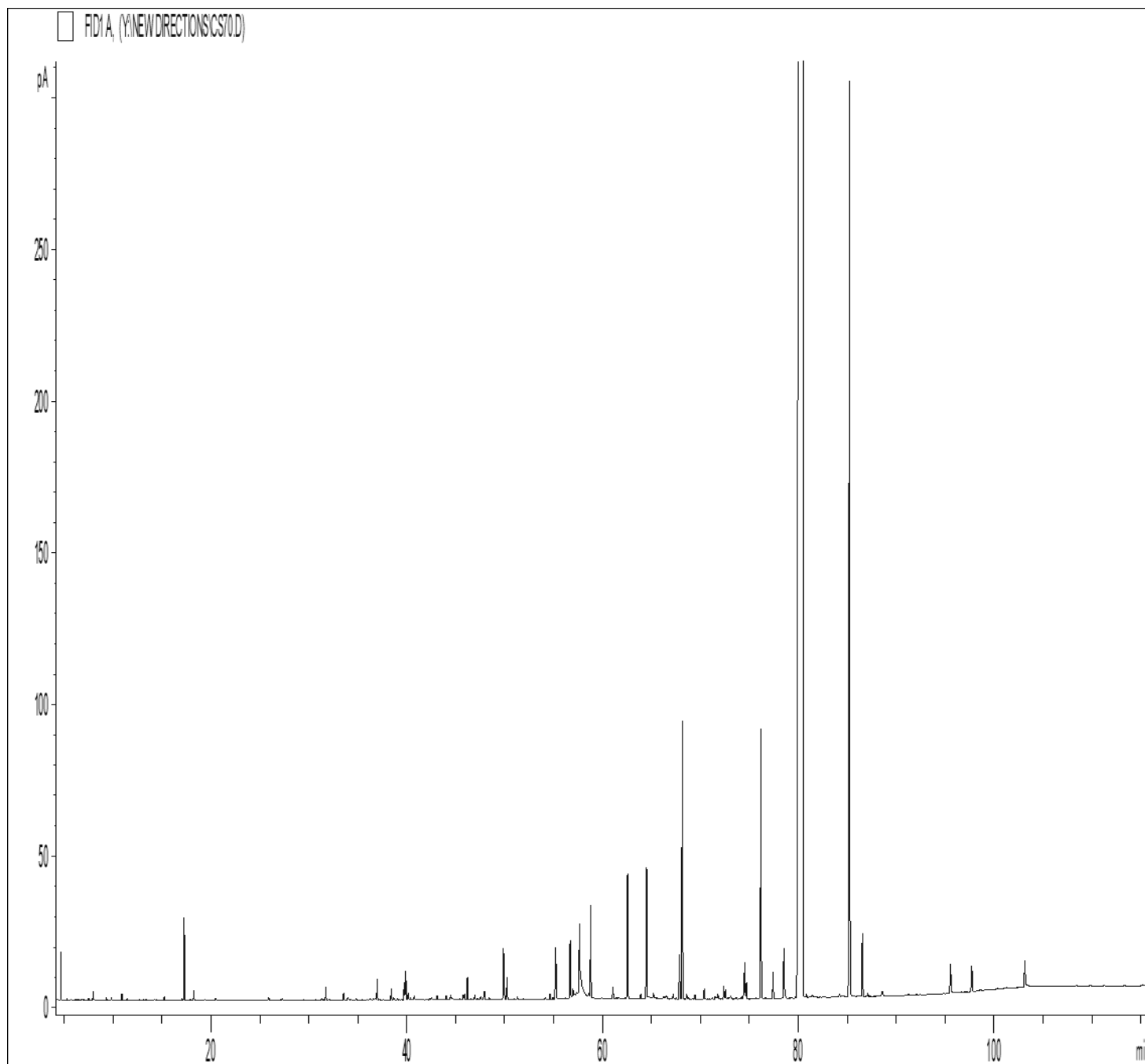


GCMS ANALYSIS

PRODUCT NAME: CALAMUS ROOT ESSENTIAL OIL – 11016

DATE: October 02, 2020



*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: CALAMUS ROOT ESSENTIAL OIL – 11016

Peak	RT (min)	Compound name	%
1	4,65	ACETONE	0,07
2	7,94	alpha-PINENE	0,02
3	10,90	beta-PINENE	0,02
4	17,27	Cis-beta-OCIMENE	0,26
5	18,26	Trans-beta-OCIMENE	0,03
6	31,72	FURFURALDEHYDE	0,05
7	33,54	alpha-COPAENE	0,03
8	36,97	LINALOOL	0,08
9	38,40	ARISTOLENE	0,05
10	39,74	CALARENE	0,07
11	39,87	beta-ELEMENE	0,12
12	40,14	beta-CARYOPHYLLENE	0,03
13	40,76	AROMADENDRENE	0,02
14	42,49	SESQUITERPENE Mw=202	0,01
15	43,09	SESQUITERPENE Mw=202	0,02
16	44,03	ZONARENE	0,03
17	44,48	alpha-HUMULENE	0,02
18	44,57	E-beta-FARNESENE	0,01
19	45,78	gamma-MUUROLENE	0,02
20	45,89	SESQUITERPENE	0,02
21	46,20	LEDENE	0,09
22	46,95	GERMACRENE D	0,02
23	47,54	beta-SELINENE	0,01
24	47,94	alpha-MUUROLENE	0,05
25	48,43	BICYCLOGERMACRENE	0,01
26	49,88	delta-CADINENE	0,20
27	49,89	gamma-CADINENE	0,05
28	50,24	ACETOXYFURALDEHYDE COMPONENT	0,09
29	51,29	CADINA-1,4-DIENE	0,01
30	54,62	cis-CALAMENENE	0,03

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: CALAMUS ROOT ESSENTIAL OIL – 11016

Peak	RT (min)	Compound name	%
31	54,91	trans-CALAMENENE	0,01
32	55,20	SHYOBUNONE ISOMER	0,23
33	56,44	SHYOBUNONE	0,91
34	56,69	ISOSHYOBUNONE	0,24
35	56,97	ISOSHYOBUNONE ISOMER	0,03
36	58,79	alpha-CALACORENE	0,39
37	61,06	beta-CALACORENE	0,05
38	62,55	DEHYDRO CYCLOISOLONGIFOLENE ISOMER Mw=202	0,54
39	63,89	E-METHYLEUGENOL	0,02
40	64,49	SESQUITERPENIC EPOXIDE	0,54
41	65,19	ALIPHATIC ESTER	0,02
42	66,52	epi-CUBENOL	0,02
43	67,22	CUBENOL	0,02
44	67,51	AROMATIC COMPOUND	0,01
45	67,84	ELEMOL	0,02
46	67,85	SESQUITERPENIC KETONE Mw=220	0,18
47	68,15	Cis-METHYLISOEUGENOL	1,17
48	68,58	SESQUITERPENIC EPOXIDE	0,03
49	69,43	SPATHULENOL	0,02
50	70,39	SESQUITERPENOL	0,05
51	71,51	ALIPHATIC ALCOHOL	0,02
52	71,78	T-CADINOL	0,02
53	72,38	Trans-METHYLISOEUGENOL	0,05
54	72,54	alpha-MUUROLOL	0,04
55	73,10	CARVACROL	0,02
56	74,20	CADALENE	0,01
57	74,42	alpha-EUDESOL	0,01
58	74,51	ELEMICIN	0,16
59	74,69	alpha-CADINOL	0,08
60	76,17	Cis-ISOLEMICIN	1,16

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: CALAMUS ROOT ESSENTIAL OIL – 11016

Peak	RT (min)	Compound name	%
61	77,41	Trans-ISOELEMICIN	0,08
62	77,42	AROMATIC COMPOUND	0,05
63	78,53	AROMATIC COMPOUND	0,23
64	80,45	<b>beta-ASARON</b>	<b>86,81</b>
65	80,83	AROMATIC COMPOUND	0,03
66	85,24	<b>alpha-ASARON</b>	<b>4,45</b>
67	86,55	HYDROXY PYRIMIDIC COMPOUND	0,30
68	87,11	SESQUITERPENOL	0,01
69	88,53	METHOXY EUGENOL	0,02
70	88,63	DIMETHOXY PROPIOPHENONE Mw=194	0,02
71	95,54	AROMATIC COMPOUND Mw=224	0,14
72	97,71	BENZALDEHYDE, 2,5,5-TRIMETHOXY	0,12
73	103,13	PALMITIC ACID	0,14
		<b>TOTAL</b>	<b>100,00</b>

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