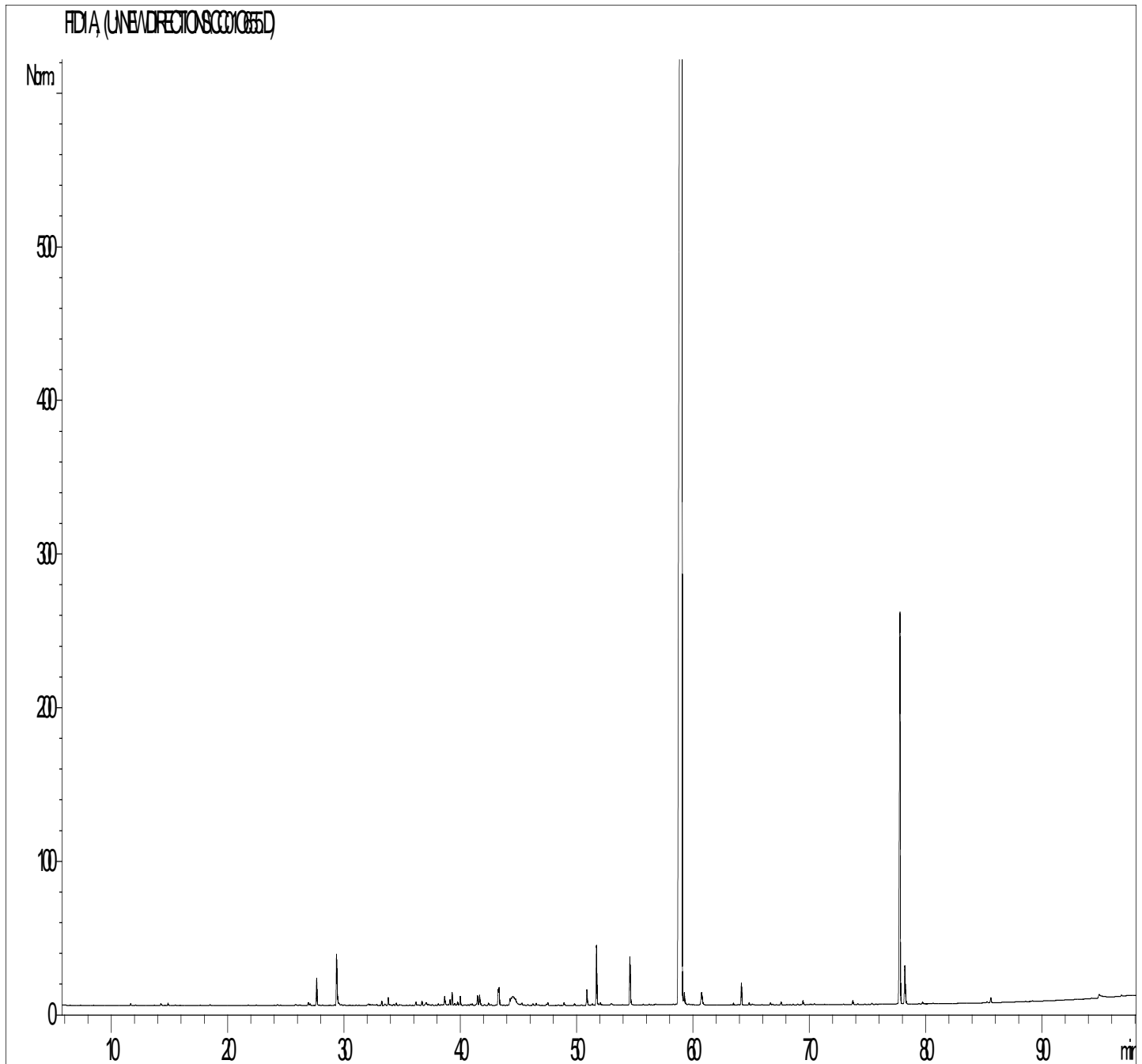




GCMS ANALYSIS

PRODUCT NAME: CASSIA ORGANIC ESSENTIAL OIL - 50060

DATE: December 6, 2017



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: CASSIA ORGANIC ESSENTIAL OIL - 50060

Peak	RT (min)	Compound name	%
1	6,5	alpha-PINENE	0,01
2	7,4	CAMPHENE	0,01
3	8,5	beta-PINENE	0,01
4	11,7	LIMONENE	0,02
5	12,1	1,8-CINEOLE	0,01
6	14,3	STYRENE	0,02
7	14,9	p-CYMENE	0,02
8	15,5	TERPINOLENE	0,01
9	18,5	5-HEPTEN-2-ONE, 6-METHYL	0,01
10	24,3	alpha,p-DIMETHYLSTYRENE	0,02
11	25,8	FURFURAL	0,02
12	26,9	CYCLOSATIVENE	0,04
13	27,1	YLANGENE	0,03
14	27,6	alpha-COPAENE	0,35
15	28,2	CAMPHOR	0,01
16	29,2	COMPOUND Mw=152	0,01
17	29,4	BENZALDEHYDE	0,84
18	29,8	beta-BOURBONENE	0,02
19	30,1	SESQUITERPENE	0,01
20	32,1	SESQUITERPENE	0,02
21	32,3	alpha,cis-BERGAMOTENE	0,02
22	32,8	BORNYL ACETATE	0,01
23	33,2	alpha,trans-BERGAMOTENE	0,05
24	33,5	beta-ELEMENE + beta-CUBEBENE	0,02
25	33,8	beta-CARYOPHYLLENE	0,11
26	34,3	TERPINENE-4-OL	0,01
27	34,5	AROMADENDRENE	0,04
28	36,2	STYRENE, p-METHOXY-	0,05
29	36,7	ALLO-AROMADENDRENE	0,06
30	37,1	ACETOPHENONE	0,07

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: CASSIA ORGANIC ESSENTIAL OIL - 50060

Peak	RT (min)	Compound name	%
31	37,3	BENZOFURAN, 2-METHYL-	0,02
32	38,1	ZONARENE	0,02
33	38,2	alpha-HUMULENE	0,01
34	38,6	SALICYLIC ALDEHYDE	0,17
35	39,1	ISOLONGIFOLENE,9,10-DEHYDRO	0,07
36	39,3	gamma-MUUROLENE	0,17
37	39,5	SESQUITERPENE	0,01
38	39,8	LEDENE	0,04
39	40,0	BORNEOL	0,13
40	40,7	SESQUITERPENE	0,01
41	40,8	GERMACRENE D	0,02
42	41,0	beta-SELINENE	0,03
43	41,4	alpha-SELINENE	0,02
44	41,5	alpha-MUUROLENE	0,14
45	41,6	beta-BISABOLENE	0,14
46	41,7	alpha-BISABOLENE	0,02
47	42,1	CURCUMENE ISOMER	0,01
48	42,4	SESQUITERPENE	0,03
49	43,1	CINNAMALDEHYDE HYDROXY	0,01
50	43,2	delta-CADINENE	0,22
51	43,3	gamma-CADINENE	0,23
52	44,2	METHYL SALICYLATE	0,01
53	44,3	CINNAMIC COMPOUND	0,03
54	44,4	alpha-CURCUMENE	0,01
55	44,5	BENZENE PROPANAL	0,78
56	44,8	SESQUITERPENE	0,02
57	45,3	SESQUITERPENE	0,02
58	46,3	METHYL THIO BENZOATE Mw=152	0,02
59	46,5	2-PHENYLETHYL ACETATE	0,03
60	47,4	Cis-ANETHOL	0,02

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: CASSIA ORGANIC ESSENTIAL OIL - 50060

Peak	RT (min)	Compound name	%
61	47,5	CALAMENENE	0,04
62	48,9	AROMATIC COMPOUND	0,05
63	49,8	BENZYL ALCOHOL	0,03
64	50,9	Z-CINNAMALDEHYDE	0,25
65	51,7	PHENYLETHYL ALCOHOL	0,87
66	52,0	alpha-CALACORENE	0,04
67	52,2	SESQUITERPENOL	0,01
68	52,9	TETRADECANAL	0,04
69	54,6	BENZALDEHYDE, 2-METHOXY	0,76
70	54,8	PHENYLIC ALCOHOL	0,01
71	55,7	CARYOPHYLLENE EPOXIDE	0,01
72	56,2	o-METHOXYACETOPHENONE	0,01
73	59,1	E-CINNAMALDEHYDE	84,64
74	59,3	AROMATIC COMPONENT	0,19
75	59,7	2-PROPENAL, 3-PHENYL- ISOMER	0,01
76	60,0	CUBENOL	0,01
77	60,6	METHYL CINNAMATE	0,01
78	60,7	METHOXYPHENYL COMPOUND Mw=164	0,32
79	63,5	TRIMETHYL-PENTADECANONE	0,02
80	64,2	CINNAMYL ACETATE	0,32
81	64,8	EUGENOL	0,04
82	65,1	T-CADINOL	0,02
83	65,9	alpha-MUUROLOL	0,01
84	66,7	RIMUENE Mw=272	0,04
85	67,6	alpha-BISABOLOL	0,04
86	68,2	CADALENE	0,01
87	69,5	Cis-o-METHOXY-CINNAMALDEHYDE	0,06
88	70,4	CINNAMIC ALCOHOL	0,02
89	70,9	CARYOPHYLLA-3,7-DIEN-6-OL	0,01
90	72,9	ALIPHATIC ESTER	0,01

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: CASSIA ORGANIC ESSENTIAL OIL - 50060

Peak	RT (min)	Compound name	%
91	73,7	DITERPENE Mw=272	0,06
92	75,4	KAUR-16-ENE	0,01
93	77,8	Trans-o-METHOXY-CINNAMALDEHYDE	6,60
94	78,2	COUMARIN	0,68
95	79,7	AROMATIC COMPOUND	0,02
96	80,6	AROMATIC COMPOUND	0,02
97	-	o-METHOXYCINNAMYL ACETATE	Nd
98	85,3	BENZENEPROPANOIC ACID	0,02
99	85,6	BENZYL BENZOATE	0,07
100	89,2	2-PHENYLETHYL BENZOATE	0,01
101	94,9	CINNAMIC ACID	0,19
102	96,8	PALMITIC ACID	0,02
		TOTAL	99,99

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