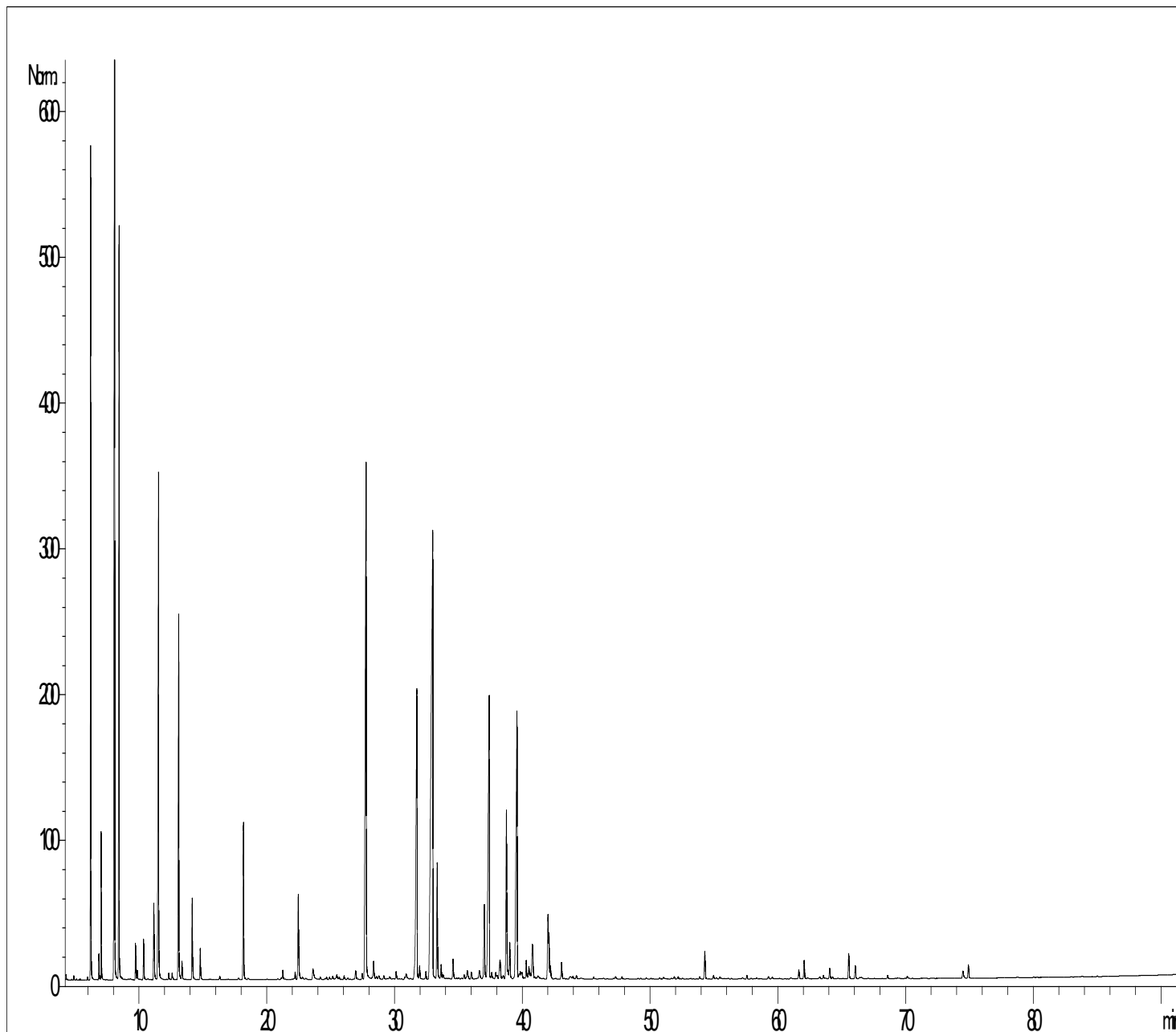


GCMS ANALYSIS

PRODUCT NAME: YARROW ESSENTIAL OIL - 11153

DATE: August 13, 2018



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: YARROW ESSENTIAL OIL - 11153

Peak	RT (min)	Compound name	%
1	4,3	ACETONE	0,03
2	4,8	ISOVALERALDEHYDE	0,03
3	5,9	TRICYCLENE	0,02
4	6,1	alpha-PINENE	5,35
5	6,2	alpha-THUYENE	0,28
6	6,8	alpha-FENCHENE	0,18
7	7,0	CAMPHENE	1,10
8	8,0	beta-PINENE	13,66
9	8,4	SABINENE	6,61
10	8,6	PINADIENE	0,04
11	9,7	beta-MYRCENE	0,32
12	9,8	alpha-PHELLANDRENE	0,10
13	9,9	psi-LIMONENE	0,02
14	10,3	alpha-TERPINENE	0,40
15	10,7	2,3-DEHYDRO-1,8-CINEOLE	0,02
16	11,1	LIMONENE	0,92
17	11,5	1,8-CINEOLE	5,82
18	12,3	FURAN,2-PENTYL	0,08
19	12,6	Cis-beta-OCIMENE	0,09
20	13,0	gamma-TERPINENE	4,08
21	13,3	Trans-beta-OCIMENE	0,21
22	14,1	p-CYMENE	0,92
23	14,7	TERPINOLENE	0,36
24	16,3	TRIDECANE	0,05
25	17,7	6-METHYL-5-HEPTEN-2-ONE	0,02
26	18,2	ARTEMISIA CETONE	1,82
27	18,5	1-HEXANOL	0,03
28	20,8	FENCHONE	0,03
29	21,1	NONANAL	0,02
30	21,2	YOMOGI ALCOHOL	0,11

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: YARROW ESSENTIAL OIL - 11153

Peak	RT (min)	Compound name	%
31	22,2	SESQUITERPENE	0,10
32	22,4	alpha-THUYONE	1,25
33	22,7	SESQUITERPENE	0,05
34	23,0	alpha,p-DIMETHYLSTYRENE	0,04
35	23,6	beta-THUYONE	0,14
36	23,7	COMPOUND Mw=152	0,09
37	24,2	COMPOUND Mw=174	0,03
38	24,6	1-OCTEN-3-OL	0,05
39	24,9	alpha-CUBEBENE	0,04
40	25,1	Trans-THUYANOL	0,06
41	25,5	delta-ELEMENE	0,10
42	25,6	COMPOUND Mw=174	0,03
43	26,0	BICYCLOELEMENE	0,05
44	26,3	YLANGENE	0,03
45	26,9	alpha-COPAENE	0,15
46	27,4	alpha-BOURBONENE	0,07
47	27,7	CAMPHOR	9,23
48	28,3	beta-BOURBONENE	0,34
49	28,5	SESQUITERPENE	0,05
50	28,7	SESQUITERPENE	0,07
51	29,1	alpha-ISOCOMENE	0,07
52	29,4	BERGAMOTENE ISOMER	0,03
53	29,6	beta1-CUBEBENE	0,06
54	30,1	LINALOOL	0,17
55	30,8	Trans-p-MENTH-2-EN-1-OL	0,03
56	30,9	PINOCARVONE	0,13
57	31,7	BORNYL ACETATE	5,40
58	31,9	ISOBORNYL ACETATE	0,19
59	32,4	alpha,cis-BERGAMOTENE	0,10
60	32,9	beta-CARYOPHYLENE	13,76

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: YARROW ESSENTIAL OIL - 11153

Peak	RT (min)	Compound name	%
61	33,3	TERPINENE-4-OL	1,59
62	33,6	AROMADENDRENE	0,21
63	33,8	MYRTENAL	0,08
64	34,6	4-THUYEN-2-alpha-YL ACETATE	0,31
65	35,4	SESQUITERPENE	0,07
66	35,7	SESQUITERPENE	0,17
67	36,0	Z-beta-FARNESENE	0,10
68	36,6	SESQUITERPENE	0,17
69	37,0	alpha-HUMULENE	1,13
70	37,4	E-beta-FARNESENE	5,65
71	37,6	SESQUITERPENE	0,09
72	37,9	NERAL	0,09
73	38,0	SESQUITERPENE	0,06
74	38,2	gamma-MUUROLENE	0,40
75	38,5	SESQUITERPENE	0,06
76	38,7	BORNEOL	2,52
77	39,0	alpha-TERPINEOL	0,54
78	39,6	GERMACRENE D	5,47
79	39,7	SESQUITERPENE	0,07
80	39,8	SESQUITERPENE	0,11
81	39,9	beta-SELINENE	0,14
82	40,3	alpha-ZINGIBERENE	0,27
83	40,5	alpha-MUUROLENE	0,19
84	40,6	beta-BISABOLENE	0,08
85	40,7	BICYCLOGERMACRENE	0,73
86	41,2	SESQUITERPENE	0,11
87	42,0	alpha-FARNESENE	0,89
88	42,1	delta-CADINENE	0,55
89	42,2	gamma-CADINENE	0,21
90	43,0	SESQUITERPENE	0,26

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: YARROW ESSENTIAL OIL - 11153

Peak	RT (min)	Compound name	%
91	43,2	SESQUITERPENE	0,02
92	43,7	CADINA-1,4-DIENE	0,07
93	43,9	MYRTENOL	0,04
94	44,2	alpha-AMORPHENE	0,04
95	45,5	COMPOUND Mw=190	0,03
96	47,3	GERANIOL	0,04
97	47,7	E-GERANYL ACETONE	0,03
98	49,3	ALIPHATIC ESTER	0,03
99	49,7	SESQUITERPENIC EPOXIDE	0,04
100	50,7	alpha-CALACORENE	0,02
101	51,0	SESQUITERPENIC EPOXIDE	0,03
102	51,9	ALIPHATIC ESTER	0,04
103	52,2	beta-IONONE	0,04
104	52,5	Trans-JASMONE	0,03
105	53,8	ISOCARYOPHYLLENE EPOXIDE	0,03
106	54,2	CARYOPHYLLENE OXIDE	0,42
107	54,9	SESQUITERPENIC EPOXIDE	0,06
108	55,2	ALIPHATIC ESTER	0,02
109	55,4	DEHYDRO-beta-IONONE	0,04
110	57,2	EPOXY-6,7-HUMULENE	0,04
111	57,6	NEROLIDOL	0,04
112	59,2	SESQUITERPENOL	0,04
113	59,5	SESQUITERPENOL	0,03
114	61,0	ALIPHATIC ESTER	0,04
115	61,6	SPATHULENOL	0,13
116	62,0	BISABOLOL OXIDE B	0,27
117	62,3	SESQUITERPENOL	0,02
118	63,3	EUGENOL	0,03
119	63,5	gamma-EUDES MOL + T-CADINOL	0,05
120	63,7	NONANOIC ACID	0,01

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: YARROW ESSENTIAL OIL - 11153

Peak	RT (min)	Compound name	%
121	64,0	BISABOLONE OXIDE	0,15
122	64,2	THYMOL	0,02
123	64,7	alpha-MUUROLOL	0,01
124	65,5	CARVACROL	0,36
125	66,0	alpha-BISABOLOL	0,18
126	66,4	AROMATIC COMPOUND	0,03
127	66,5	AROMATIC COMPOUND	0,03
128	68,6	CAPRIC ACID	0,04
129	70,1	MATRICARIA ESTER Mw=174	0,03
130	74,5	CHAMAZULENE	0,14
131	74,9	SESQUITERPENIC EPOXIDE	0,20
		TOTAL	99,91

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