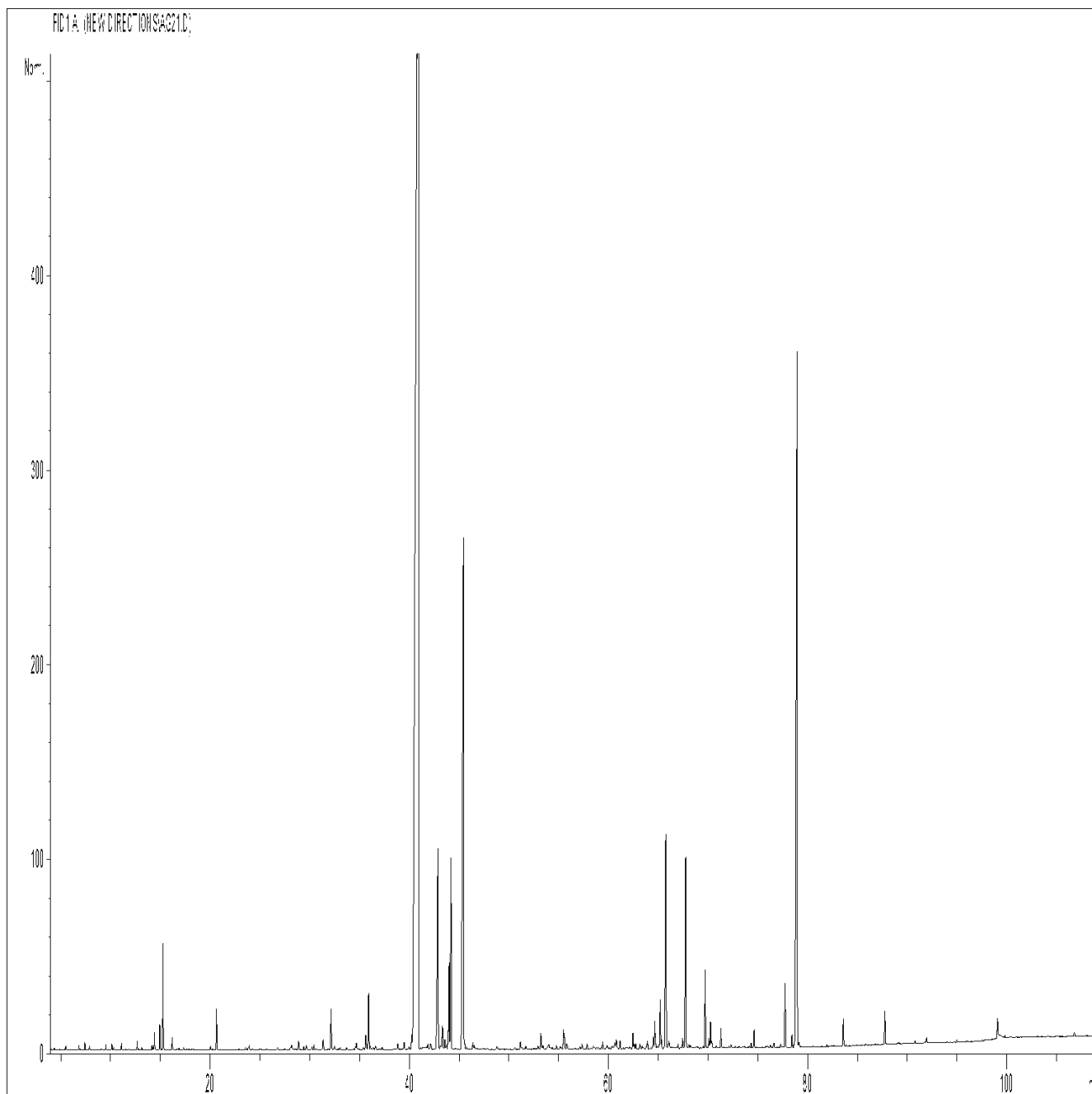


GCMS ANALYSIS

PRODUCT NAME: CHAMOMILE GERMAN (NEPAL) ESSENTIAL OIL - 11267

DATE: November 25, 2019



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: CHAMOMILE GERMAN (NEPAL) ESSENTIAL OIL - 11267

Peak	RT (min)	Compound name	%
1	5,48	METHYL VINYL KETONE	0,02
2	6,80	alpha-PINENE	0,02
3	7,41	ETHYL 2-METHYLBUTYRATE	0,04
4	7,87	CAMPHENE	0,01
5	9,10	beta-PINENE	0,01
6	9,54	SABINENE	0,03
7	10,15	2-METHYLPROPYL BUTYRATE	0,03
8	11,11	beta-MYRCENE	0,04
9	11,56	TERPENE ISOMER	0,01
10	11,83	alpha-TERPINENE	0,01
11	12,70	LIMONENE	0,06
12	13,15	1,8-CINEOLE	0,01
13	14,16	FURAN 2-PENTYL	0,03
14	14,29	BUTYL METHACRYLATE	0,02
15	14,41	Cis-beta-OCIMENE	0,12
16	14,95	gamma-TERPINENE	0,19
17	15,28	Trans-beta-OCIMENE	0,79
18	16,20	p-CYMENE	0,09
19	16,71	ISOAMYL, 2-METHYLBUTYRATE	0,01
20	16,88	TERPINOLENE	0,01
21	17,36	OCTANAL	0,01
22	17,67	ALIPHATIC ESTER	0,01
23	20,05	6-METHYL-5-HEPTEN-2-ONE	0,03
24	20,64	ARTEMISIA CETONE	0,34
25	23,92	ALIPHATIC ALCOHOL	0,02
26	26,78	HEXYL, 2-METHYLBUTYRATE	0,02
27	28,07	alpha-LONGIPINENE	0,02
28	28,19	SILPHINENE	0,05
29	28,89	gamma-ELEMENE	0,09
30	29,41	SESQUITERPENE	0,03

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: CHAMOMILE GERMAN (NEPAL) ESSENTIAL OIL - 11267

Peak	RT (min)	Compound name	%
31	29,66	alpha-COPAENE	0,05
32	30,24	3-HEXENYL ISOVALERATE	0,02
33	30,44	ARTEMISIA ALCOHOL	0,04
34	31,36	MODHEPHENE	0,11
35	32,15	alpha-ISOCOMENE	0,44
36	32,51	SESQUITERPENE	0,03
37	32,97	SESQUITERPENE	0,01
38	33,09	LINALOOL	0,01
39	33,70	1-OCTANOL	0,02
40	34,58	SESQUITERPENE	0,02
41	34,71	SESQUITERPENE	0,07
42	35,40	alpha,trans-BERGAMOTENE	0,02
43	35,64	beta-ELEMENE	0,17
44	35,92	beta-CARYOPHYLLENE	0,67
45	36,09	TERPINENE-4-OL	0,02
46	36,63	AROMADENDRENE	0,04
47	37,27	THUJOPSENE	0,02
48	38,86	ALLO-AROMADENDRENE	0,07
49	39,49	4,8-DIMETHYL, 3,7-NONANEDIEN-2-ONE	0,07
50	39,98	1-NONANOL	0,02
51	40,27	alpha-HUMULENE	0,19
52	40,93	E-beta-FARNESENE	54,42
53	41,89	gamma-CURCUMENE	0,04
54	42,17	LEDENE	0,09
55	42,89	GERMACRENE D	3,07
56	43,13	SESQUITERPENE	0,04
57	43,34	beta-SELINENE	0,32
58	43,57	alpha-ZINGIBERENE	0,10
59	43,75	alpha-MUUROLENE	0,04
60	43,91	beta-BISABOLENE	0,16

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: CHAMOMILE GERMAN (NEPAL) ESSENTIAL OIL - 11267

Peak	RT (min)	Compound name	%
61	44,02	BICYCLOGERMACRENE	0,88
62	44,21	alpha-BISABOLENE	2,24
63	45,46	alpha-FARNESENE	9,04
64	45,58	delta-CADINENE	0,04
65	45,76	gamma-CADINENE	0,02
66	46,40	beta-SESQUIPELLANDRENE	0,07
67	46,53	alpha-CURCUMENE	0,03
68	46,57	SESQUITERPENE	0,01
69	48,79	2,4-DECADIENAL	0,02
70	48,86	2-TRIDECANONE	0,03
71	51,18	ALIPHATIC ESTER	0,08
72	51,73	SESQUITERPENIC EPOXIDE	0,02
73	52,95	PHENYLETHYLIC ESTER	0,02
74	53,23	SESQUIROSEFURAN	0,16
75	53,45	AROMATIC COMPOUND	0,04
76	54,02	DIHYDROCHAMAZULENE	0,08
77	54,16	DIHYDROCHAMAZULENE ISOMER	0,03
78	54,38	NERYL VALERATE	0,02
79	54,78	ALIPHATIC ESTER	0,04
80	55,18	beta-IONONE	0,04
81	55,51	DENDROSALIN	0,21
82	55,59	ALIPHATIC ESTER	0,12
83	55,82	ALIPHATIC ALCOHOL	0,05
84	55,86	SESQUITERPENOL	0,03
85	57,36	SANTALOL ISOMER	0,06
86	57,86	CARYOPHYLLENE EPOXID	0,06
87	58,49	AROMATIC COMPOUND	0,03
88	59,44	SESQUITERPENOL	0,09
89	59,87	SESQUITERPENOL	0,03
90	60,39	SESQUITERPENOL	0,05

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: CHAMOMILE GERMAN (NEPAL) ESSENTIAL OIL - 11267

Peak	RT (min)	Compound name	%
91	60,66	SESQUITERPENIC EPOXID	0,11
92	60,81	PENTADECANAL	0,16
93	61,17	NEROLIDOL	0,09
94	61,76	SESQUITERPENOL	0,02
95	62,11	SESQUITERPENOL	0,04
96	62,46	PRECOCENE I	0,17
97	62,59	VIRIDIFLOROL	0,05
98	62,77	SESQUITERPENOL	0,05
99	63,16	ALIPHATIC SESQUITERPENOL	0,04
100	63,83	AROMATIC COMPOUND	0,02
101	63,94	SESQUITERPENOL	0,09
102	64,53	SESQUITERPENOL	0,11
103	64,67	SESQUITERPENIC EPOXIDE	0,28
104	64,74	SESQUITERPENIC EPOXIDE	0,03
105	65,12	SESQUITERPENIC COMPOUND Mw=236	0,03
106	65,21	SPATHULENOL	0,52
107	65,35	BISABOLOL C OXID	0,09
108	65,78	alpha-BISABOLOL OXIDE B	2,67
109	65,83	PENTADECANONE TRIMETHYL	0,20
110	66,08	SESQUITERPENOL	0,10
111	66,14	SESQUITERPENOL	0,03
112	67,01	ALIPHATIC ESTER	0,04
113	67,45	T-CADINOL	0,10
114	67,77	BISABOLOL OXIDE A	2,30
115	68,10	SESQUITERPENOL	0,05
116	68,25	alpha-MUUROLOL	0,04
117	69,75	alpha-BISABOLOL	0,81
118	70,10	SESQUITERPENOL + beta-EUDESMOL	0,11
119	70,27	alpha-CADINOL	0,30
120	70,38	GERANYLLINALOL	0,08

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: CHAMOMILE GERMAN (NEPAL) ESSENTIAL OIL - 11267

Peak	RT (min)	Compound name	%
121	70,86	ALIPHATIC ALCOHOL	0,03
122	71,31	HYDRATE 7-épi-SESQUISABINENE	0,20
123	72,33	SESQUITERPENOL	0,04
124	73,17	SESQUITERPENOL	0,03
125	74,16	ALIPHATIC ALCOHOL	0,02
126	74,35	SESQUITERPENOL	0,06
127	74,65	TRICOSANE	0,19
128	76,00	ALIPHATIC ESTER	0,03
129	76,28	ALIPHATIC ALCOHOL	0,03
130	76,62	SESQUITERPENOL	0,06
131	77,32	SESQUITERPENOL	0,04
132	77,75	CHAMAZULENE	0,76
133	78,46	PRECOCENE II	0,14
134	78,70	ALIPHATIC ALCOHOL	0,04
135	78,96	alpha-BISABOLOL OXIDE A	12,28
136	79,16	TETRACOSANE	0,08
137	83,62	PENTACOSANE	0,31
138	87,78	PHYTOL	0,36
139	91,98	HEPTACOSANE	0,05
140	99,09	6-METHOXYNAPHTHALENE,2-ACETYL-	0,23
141	106,81	DITERPENE Mw=272	0,06
142	110,55	FARNESOL ISOMER	0,05
		TOTAL	100,00

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