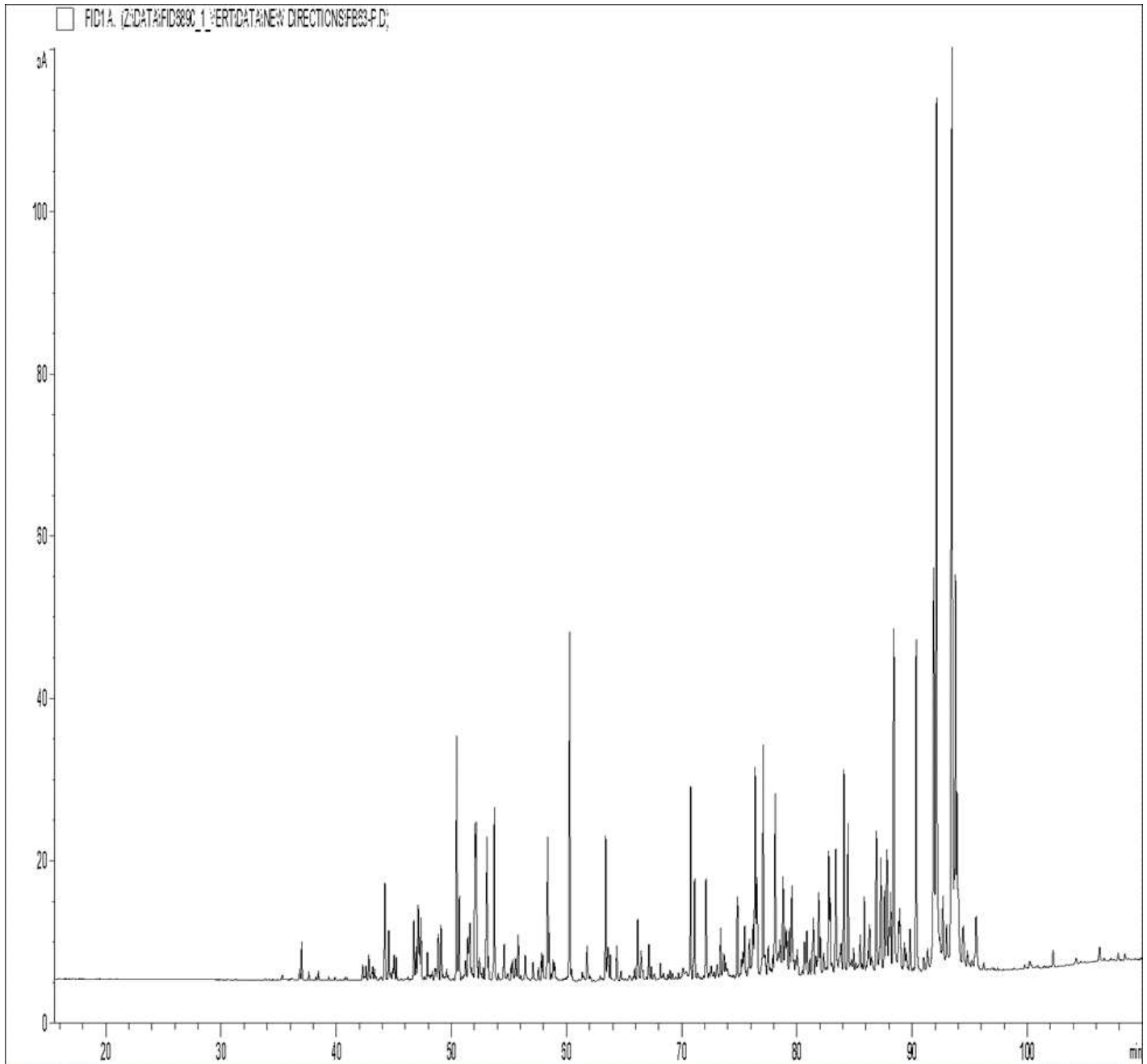


GCMS ANALYSIS

PRODUCT NAME: VETIVER ORGANIC ESSENTIAL OIL - 50024
DATE: July 22, 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 (cont'd.)

PRODUCT NAME: VETIVER ORGANIC ESSENTIAL OIL - 50024

Peak	RT (min)	Compound	%
1	35,32	FURFURAL	0,04
2	36,15	alpha-CUBEBENE	0,03
3	36,82	CYCLOSATIVENE	0,07
4	37,00	YLANGENE	0,16
5	37,02	beta-PATCHOULENE	0,08
6	37,62	alpha-COPAENE	0,05
7	38,24	SESQUITERPENE	0,03
8	38,47	LONGIPINENE ISOMER	0,06
9	39,34	SESQUITERPENE	0,03
10	39,90	alpha-GURJUNENE	0,02
11	40,76	SESQUITERPENE	0,03
12	40,92	beta1-CUBEBENE	0,03
13	42,32	CHAMIGRENE ISOMER	0,12
14	42,45	SESQUITERPENE	0,04
15	42,60	alpha-CEDRENE	0,10
16	42,84	epsilon-CADINENE	0,20
17	43,07	SESQUITERPENE	0,07
18	43,18	ARISTOLENE ISOMER	0,09
19	43,33	SESQUITERPENE	0,07
20	43,46	SESQUITERPENE	0,03
21	43,80	alpha-trans-BERGAMOTENE	0,03
22	43,94	ALKYL BENZENE Mw=190	0,02
23	44,22	alpha-GUAIENE	0,71
24	44,54	beta-CARYOPHYLLENE	0,36
25	44,70	beta-CEDRENE	0,06
26	44,89	beta-CUBEBENE	0,10
27	45,02	ALKYL BENZENE Mw=188	0,15
28	45,22	6,9-GUAIADIENE	0,16
29	46,21	SESQUITERPENE	0,04
30	46,73	PREZIZA-7-ENE	0,47

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: VETIVER ORGANIC ESSENTIAL OIL - 50024

Peak	RT (min)	Compound	%
31	46,93	alpha-PATCHOULENE	0,26
32	47,09	KHUSIMENE	0,52
33	47,20	GURJUNENE ISOMER	0,25
34	47,35	SEYCHELLENE	0,44
35	47,63	SESQUITERPENE	0,03
36	47,90	gamma-PATCHOULENE	0,22
37	48,06	ZONARENE	0,07
38	48,33	alpha-ACORADIENE	0,13
39	48,55	alpha-HUMULENE	0,10
40	48,65	SESQUITERPENE	0,10
41	48,85	COMPOUND Mw=200	0,42
42	49,08	SESQUITERPENE	0,40
43	49,25	gamma-SELINENE	0,07
44	49,58	SESQUITERPENE	0,10
45	50,43	gamma-MUUROLENE	1,61
46	50,67	CALARENE	0,59
47	50,91	SESQUITERPENE	0,04
48	51,07	SESQUITERPENE	0,05
49	51,22	ACIPHYLLENE	0,17
50	51,41	PATCHOULENE ISOMER	0,29
51	51,59	beta-CHAMIGRENE	0,61
52	51,72	MUUROLENE ISOMER	0,09
53	51,85	beta-SELINENE	0,05
54	52,04	EREMOPHILENE	1,02
55	52,12	CADINENE ISOMER	1,00
56	52,18	VALENCENE	0,21
57	52,42	beta-BISABOLENE	0,21
58	52,59	alpha-SELINENE	0,06
59	52,77	AROMATIC COMPOUND Mw=160	0,09
60	52,99	BICYCLOGERMACRENE	0,18

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: VETIVER ORGANIC ESSENTIAL OIL - 50024

Peak	RT (min)	Compound	%
61	53,06	ARISTOLENE	1,05
62	53,20	beta-CURCUMENE	0,17
63	53,64	SESQUITERPENE Mw=202	0,11
64	53,72	alpha-VETISPIRENE	1,14
65	54,06	SESQUITERPENE	0,07
66	54,56	delta-CADINENE	0,36
67	54,86	gamma-CADINENE	0,10
68	55,17	delta-SELINENE	0,12
69	55,30	beta-SESQUIPELLANDRENE	0,14
70	55,55	alpha-CURCUMENE	0,22
71	55,78	CADINA-1,4-DIENE	0,36
72	56,39	EUDESMATRIENE ISOMER Mw=202	0,22
73	57,07	SESQUITERPENE Mw=204	0,15
74	57,54	NAPHTHALENONE DIHYDROTRIMETHYL ISOMER	0,10
75	57,81	DEHYDRO AROMADENDRENE	0,19
76	57,94	beta-VETISPIRENE Mw=202	0,21
77	58,34	CUPARENE	0,96
78	58,34	SESQUITERPENE Mw=204	0,30
79	58,66	GERMACRENE B	0,07
80	58,83	cis-CALAMENENE	0,15
81	58,94	trans-CALAMENENE	0,12
82	60,04	AROMATIC COMPOUND Mw=188	0,04
83	60,26	beta-VETIVENENE	2,39
84	61,35	SESQUITERPENE Mw=202	0,17
85	61,70	AROMATIC COMPOUND Mw=188	0,20
86	61,77	gamma-VETIVENENE	0,10
87	62,03	alpha-AGAROFURANE	0,06
88	62,90	AROMATIC COMPONENT Mw=188	0,05
86	63,38	EUDESMA-3,5-11-TRIENE	0,93
90	63,58	alpha-CALACORENE	0,33

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: VETIVER ORGANIC ESSENTIAL OIL - 50024

Peak	RT (min)	Compound	%
91	63,78	AROMATIC ALCOHOL Mw=200	0,17
92	64,34	KHUSIMONE Mw=204	0,26
93	64,71	CUBEBOL	0,09
94	65,42	COMPOUND Mw=200	0,08
95	65,91	beta-CALACORENE	0,09
96	66,17	CADINATRIENE ISOMER Mw=202	0,54
97	66,46	COMPOUND Mw=200	0,27
98	66,61	AROMATIC COMPOUND Mw=198	0,09
99	67,14	METHYLENE CYCLOPENTENYLE Mw=200	0,29
100	67,34	COMPOUND BENZYLIQUE Mw=222	0,12
101	67,63	SESQUITERPENONE Mw=218	0,12
102	68,14	BENZOCYCLOHEPTENONE Mw=178	0,13
103	68,41	SESQUITERPENOL	0,08
104	68,79	AROMATIC COMPOUND Mw=206	0,05
105	68,97	SESQUITERPENOL Mw=220	0,07
106	69,18	SESQUITERPENIC EPOXIDE	0,05
107	69,71	SESQUITERPENOL Mw=220	0,06
108	70,10	SESQUITERPENOL Mw=222	0,18
109	70,76	EUDESMOL ISOMER Mw=222	1,31
110	71,01	OCTAHYDRO METHYLPHENANTHRENE Mw=200	0,09
111	71,10	LEVOJUNENOL	0,72
112	71,36	epi-CUBENOL	0,10
113	72,12	ELEMOL	0,76
114	72,40	GLOBULOL	0,05
115	72,56	AROMATIC COMPOUND	0,15
116	72,81	GUAJOL	0,07
117	73,09	AROMATIC COMPOUND Mw=206	0,17
118	73,38	10-epi-gamma-EUDESMOL	0,37
119	73,66	SESQUITERPENOL	0,24
120	73,81	SESQUITERPENOL	0,19

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GCMS ANALYSIS (*cont'd.*)

PRODUCT NAME: VETIVER ORGANIC ESSENTIAL OIL - 50024

Peak	RT (min)	Compound	%
121	73,98	AROMATIC COMPOUND Mw=220	0,07
122	74,85	AROMATIC COMPOUND Mw=220	0,57
123	75,19	CADINOL ISOMER	0,15
124	75,32	SESQUITERPENOL Mw=222	0,19
125	75,46	SESQUITERPENOL Mw=222	0,37
126	75,89	8-OXO NEOISOLONGIFOLENE Mw=218	0,44
127	76,21	SESQUITERPENONE Mw=218	0,70
128	76,37	EUDESMOL ISOMER Mw=222	1,65
129	76,55	gamma-EUDESMOL	0,86
130	76,99	SESQUITERPENOL	0,23
131	77,08	VETISELINENOL ISOMER	1,64
132	77,24	SELINOL ISOMER	0,21
133	77,52	CADINOL ISOMER	0,30
134	77,66	SESQUITERPENONE Mw=218	0,14
135	77,93	SESQUITERPENOL	0,20
136	78,12	alpha-MUUROLOL	1,53
137	78,41	SESQUITERPENONE Mw=218	0,31
138	78,54	delta-CADINOL	0,35
139	78,82	VALERIANOL	0,88
140	78,99	SESQUITERPENOL	0,51
141	79,14	alpha-EUDESMOL	0,38
142	79,37	ISOSPATHULENOL	0,42
143	79,56	beta-EUDESMOL	0,77
144	79,75	alpha-CADINOL	0,15
145	79,91	SESQUITERPENOL Mw=220	0,18
146	80,05	SESQUITERPENIC EPOXIDE	0,27
147	80,67	SESQUITERPENONE Mw=218	0,26
148	80,88	EUDESMOL ISOMER	0,37
149	81,14	SESQUITERPENIC EPOXIDE	0,12
150	81,37	AROMATIC COMPOUND	0,18

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: VETIVER ORGANIC ESSENTIAL OIL - 50024

Peak	RT (min)	Compound	%
151	81,44	TRICHOACORENOL Mw=222	0,39
152	81,65	SESQUITERPENOL Mw=220	0,14
153	81,90	beta-BISABOLOL ISOMER	0,68
154	82,04	EUDESMA-7-EN-4-OL ISOMER	0,29
155	82,34	SESQUITERPENONE Mw=218	0,24
156	82,78	SESQUITERPENOL Mw=220	0,90
157	82,90	JUNIPER CAMPHOR	0,54
158	83,06	AROMATIC COMPOUND Mw=220	0,13
159	83,38	BICYCLOVETIVENOL	1,12
160	83,74	SESQUITERPENONE Mw=218	0,20
161	83,84	SESQUITERPENOL Mw=220	0,28
162	84,09	SESQUITERPENOL Mw=220	1,54
163	84,45	SESQUITERPENIC EPOXIDE	1,11
164	84,77	AROMATIC COMPOUND	0,21
165	84,93	SESQUITERPENONE Mw=218	0,20
166	85,12	SESQUITERPENIC EPOXIDE	0,09
167	85,50	SESQUITERPENONE Mw=218	0,38
168	85,86	AROMATIC COMPOUND	0,58
169	86,18	SESQUITERPENOL Mw=220	0,17
170	86,31	VETIVENOL ISOMER Mw=220	0,37
171	86,50	SESQUITERPENOL	0,25
172	86,91	ZIZANOL	1,17
173	87,29	SESQUITERPENOL Mw=220	1,12
174	87,60	VETIVENOL	0,69
175	87,83	SESQUITERPENOL	1,06
176	88,02	SESQUITERPENOL	0,38
177	88,15	SESQUITERPENOL	0,66
178	88,42	VETISELINENOL Mw=220	3,06
179	88,85	SESQUITERPENOL Mw=220	0,44
180	88,95	SESQUITERPENOL AROMATIQUE Mw=220	0,61

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: VETIVER ORGANIC ESSENTIAL OIL - 50024

Peak	RT (min)	Compound	%
181	89,33	SESQUITERPENOL Mw=220	0,32
182	89,53	SESQUITERPENONE Mw=218	0,21
183	89,85	SESQUITERPENOL Mw=220	0,33
184	90,37	VETIVEROL Mw=220	2,60
185	91,36	AROMATIC COMPOUND	0,25
186	91,90	beta-VETIVONE	3,71
187	92,15	KHUSIMOL	7,83
188	92,42	AROMATIC COMPOUND	0,35
189	92,69	SESQUITERPENOL	0,83
190	93,01	NOOTKATONE	0,55
191	93,47	ISOVALENCENOL	8,94
192	93,77	Z-gamma-CURCUMENE-12-OL	2,22
193	93,91	alpha-VETIVONE	3,63
194	94,47	SESQUITERPENOL Mw=220	0,62
195	94,81	SESQUITERPENONE Mw=218	0,23
196	95,20	SESQUITERPENOL Mw=220	0,12
197	95,56	SESQUITERPENONE Mw=218	0,71
198	96,25	AROMATIC COMPOUND Mw=200	0,07
199	102,25	ACID COMPOUND Mw=234	0,13
200	104,28	AROMATIC COMPOUND Mw=216	0,05
201	106,30	ACID COMPOUND Mw=234	0,15
202	107,91	ACID COMPOUND Mw=234	0,07
203	108,49	PALMITIC ACID	0,06
204	111,03	ISOKHUSENIC ACID	0,08
205	113,53	ACID COMPOUND Mw=234	0,08
206	114,02	KHUSENIC ACID	1,81
207	118,47	ACID COMPOUND Mw=234	0,11
		TOTAL	99,83

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