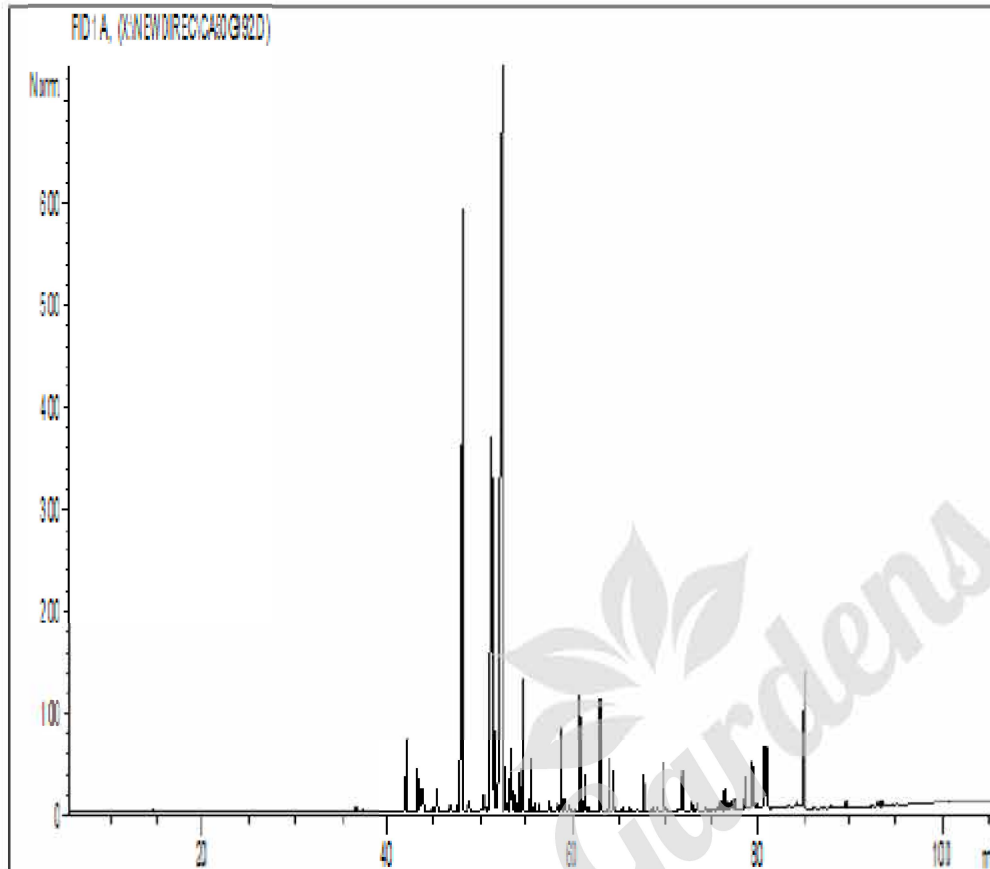


GCMS ANALYSIS

PRODUCT NAME: Cedarwood Essential Oil (Atlas)

DATE: June 7, 2016



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.

Peak	RT (min)	Compound name	%
1	5,1	ACETONE	0,02
2	9,6	α -PINENE	0,02
3	12,5	β -PINENE	0,01
4	14,7	3-PENTEN-2-ONE, 4-METHYL-	0,03
5	16,2	β -MYRCENE	0,01
6	16,0	DODECANE	0,01
7	16,5	LIMONENE	0,01
8	19,1	TRIDECANE	0,01
9	22,0	p-CYMENE	0,01
10	23,7	TERPINOLENE	0,01
11	24,4	TETRADECANE	0,01
12	27,3	6-METHYL-5-HEPTEN-2-ONE	0,01
13	21,3	FENCHONE	0,02
14	33,0	TERPENIC COMPONENT	0,01
15	34,2	α , β -DIMETHYLSTYRENE	0,01
16	36,5	α -LONGIPINENE	0,07
17	37,5	YLANGENE	0,04
18	36,1	CYCLOSATIVENE	0,03
19	36,6	α -COPAENE	0,01
20	36,0	SESQUITERPENE	0,01
21	36,2	SESQUITERPENE	0,02
22	40,2	PENTADECANE	0,02
23	40,4	COPACAMPHENE	0,03
24	40,0	SESQUITERPENE	0,01
25	41,7	SESQUITERPENE	0,01
26	41,9	CADINA-3,5-DIENE	0,46
27	42,0	1-METHYL-4-ACETYLCYCLOHEX-1-ENE	0,87
28	42,9	SESQUITERPENE	0,01
29	43,3	LONGIFOLENE	0,73
30	43,7	EUDESMATRIENE ISOMER Mw=202	0,86
31	44,7	SESQUITERPENE	0,08
32	44,0	MAALIENE ISOMER	0,07
33	45,4	α -CEDRENE	0,45
34	45,8	SESQUITERPENE	0,02
35	46,1	SESQUITERPENE	0,01
36	46,5	SESQUITERPENE	0,03
37	46,4	THUYOPSENE	0,16
38	47,2	CEDRENE ISOMER	0,01
39	47,6	SESQUITERPENE	0,08
40	48,2	α -HIMACHALENE	15,83
41	48,4	E- β -FARNESENE	0,28
42	48,1	CEDRENE ISOMER	0,02
43	51,0	α -HUMULENE	0,07
44	50,3	HIMACHALENE ISOMER	0,41
45	50,5	CEDRENE ISOMER	0,02

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Peak	RT (min)	Compound name	%
46	50,8	SESQUITERPENE	0,08
47	51,2	γ -HIMACHALENE	9,49
48	51,4	CURCUMENE ISOMER	1,71
49	52,5	β -HIMACHALENE	43,61
50	52,7	EUDESMA-3,5,11-TRIENE	0,50
51	52,9	CURCUMENE ISOMER	0,13
52	53,0	HIMACHALENE ISOMER	0,02
53	53,3	HIMACHALENE ISOMER	0,77
54	53,4	SESQUITERPENE	0,19
55	53,5	β -CURCUMENE	0,24
56	53,8	SESQUITERPENE Mw=222	0,20
57	54,2	SESQUITERPENE	0,49
58	54,7	δ -CADINENE	1,87
59	55,1	METHYLACETOPHENONE	0,01
60	55,5	Cis- α -BISABOLENE	0,86
61	55,7	CURCUMENE ISOMER	0,04
62	55,9	BENZOFURAN COMPONENT	0,09
63	56,3	CADINA-1,4-DIENE	0,12
64	46,7	CALAMENENE ISOMER	0,02
65	57,4	SESQUITERPENE Mw=202	0,16
66	57,5	SESQUITERPENE	0,06
67	57,9	SESQUITERPENE	0,01
68	58,2	AROMATIC COMPONENT Mw=222	0,06
69	58,4	SESQUITERPENE Mw=202	0,12
70	58,8	EUDESMA-2,4,11-TRIENE	1,13
71	59,1	CALAMENENE	0,24
72	59,5	SESQUITERPENE	0,08
73	59,7	EUDESMATRIENE ISOMER	0,03
74	60,3	SESQUITERPENE	0,02
75	60,8	OCTAHYDRO METHYLPHENANTHRENE Mw=200	1,43
76	61,3	OCTAHYDRO METHYLPHENANTHRENE Mw=200 ISO	0,47
77	61,8	SESQUITERPENE	0,07
78	62,0	SESQUITERPENE Mw=220	0,01
79	62,7	SESQUITERPENE	0,01
80	62,9	OCTAHYDRO METHYLPHENANTHRENE Mw=200 ISO	1,38
81	63,6	COMPONENT Mw=218	0,02
82	63,8	COMPONENT Mw=218	0,03
83	63,9	α -CALACORENE	0,65
84	64,4	CYCLOTERPENIC ESTER	0,50
85	65,0	SESQUITERPENE	0,01
86	65,4	AROMATIC COMPONENT	0,05
87	66,2	β -CALACORENE	0,05
88	66,9	TERPENIC ACETATE	0,04
89	67,8	SESQUITERPENOL	0,46
90	67,7	SESQUITERPENIC EPOXIDE	0,02

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Peak	RT (min)	Compound name	%
91	68,0	SESQUITERPENIC EPOXIDE	0,01
92	68,6	β -IONONE	0,04
93	68,1	SESQUITERPENIC COMPONENT	0,06
94	68,3	SPATHULENOL	0,01
95	68,8	β -HIMACHALENOXIDE	0,68
96	70,1	SESQUITERPENIC EPOXIDE	0,02
97	70,3	SESQUITERPENIC EPOXIDE	0,02
98	70,5	SESQUITERPENIC EPOXIDE	0,01
99	70,6	NEROLIDOL	0,01
100	70,9	SESQUITERPENIC EPOXIDE	0,01
101	71,2	SESQUITERPENIC EPOXIDE	0,01
102	71,4	SESQUITERPENIC EPOXIDE Mw=218	0,04
103	71,7	SESQUITERPENIC EPOXIDE	0,56
104	71,9	CUBENOL	0,52
105	72,4	SESQUITERPENIC EPOXIDE Mw=218	0,01
106	72,8	SESQUITERPENOL + COMPOUND Mw=152	0,15
107	73,3	SESQUITERPENIC EPOXIDE	0,08
108	74,3	SESQUITERPENIC EPOXIDE	0,04
109	74,4	SESQUITERPENIC EPOXIDE	0,02
110	74,6	SESQUITERPENIC EPOXIDE	0,01
111	74,8	SESQUITERPENIC EPOXIDE	0,03
112	75,2	SESQUITERPENIC EPOXIDE	0,04
113	75,4	SESQUITERPENIC EPOXIDE	0,03
114	75,6	α -EUDESMOL	0,06
115	76,0	LEDENE EPOXIDE	0,18
116	76,4	SESQUITERPENIC EPOXIDE	0,27
117	76,6	SESQUITERPENIC EPOXIDE	0,11
118	77,0	FURANIC COMPONENT	0,14
119	77,2	SESQUITERPENIC EPOXIDE	0,07
120	77,5	SESQUITERPENIC EPOXIDE	0,21
121	78,0	SESQUITERPENIC EPOXIDE	0,01
122	78,6	TUMERONE	0,41
123	78,3	HIMACHALOL	0,89
124	78,6	ATLANTONE ISOMER	0,87
125	78,9	CADALENE	0,05
126	80,6	α -ATLANTONE	0,88
127	80,7	β -ATLANTONE	0,81
128	80,9	ALLO-HIMACHALOL	0,82
129	81,4	SESQUITERPENOL	0,02
130	82,1	COMPONENT Mw=152	0,01
131	82,7	SESQUITERPENOL	0,02
132	83,2	SESQUITERPENOL	0,01
133	83,4	SESQUITERPENOL	0,02
134	84,2	SESQUITERPENOL Mw=220	0,06
135	84,9	γ -ATLANTONE	3,01

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Peak	RT (min)	Compound name	%
136	85,2	SESQUITERPENOL	0,03
137	86,8	SESQUITERPENIC ACETATE Mw=218	0,02
138	87,4	SESQUITERPENOL	0,01
139	87,9	SESQUITERPENIC EPOXIDE	0,04
140	88,6	SESQUITERPENOL Mw=220	0,01
141	88,7	SESQUITERPENOL Mw=220	0,01
142	88,6	SESQUITERPENIC ACETATE Mw=218	0,10
143	88,9	SESQUITERPENOL	0,01
144	91,5	SESQUITERPENIC EPOXIDE	0,01
145	92,2	SESQUITERPENIC EPOXIDE	0,02
146	92,3	OXYGENED COMPONENT	0,02
147	93,1	OXYGENED COMPONENT	0,07
148	93,5	OXYGENED COMPONENT	0,09
149	94,3	SESQUITERPENOL	0,01
150	94,5	SESQUITERPENIC EPOXIDE	0,04
151	95,1	SESQUITERPENOL	0,02
152	96,2	SESQUITERPENOL	0,01
153	97,0	SESQUITERPENOL	0,01
		TOTAL	99,95



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