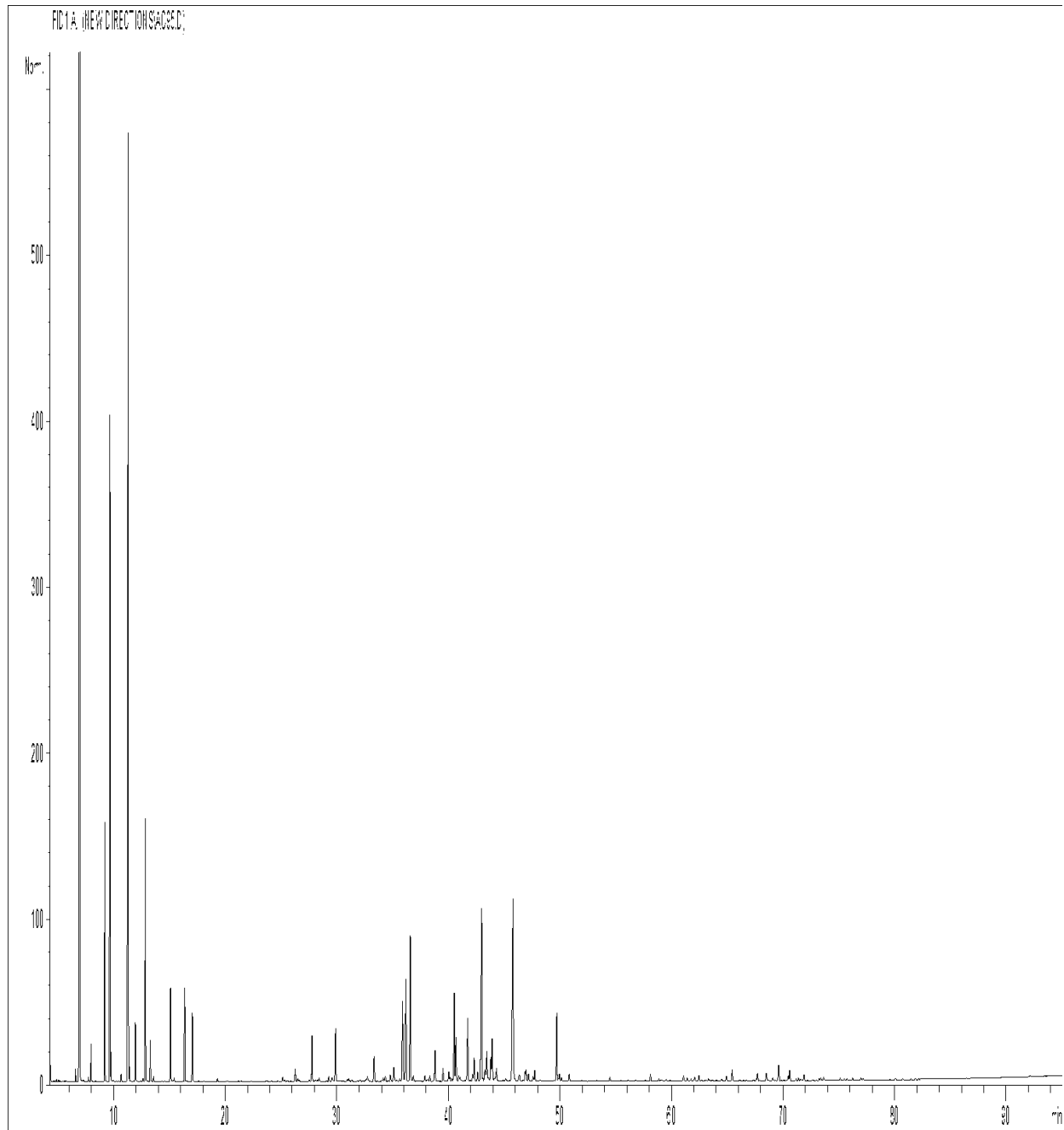




GCMS ANALYSIS

PRODUCT NAME: JUNIPER BERRY ORGANIC ESSENTIAL OIL - 50013

DATE: November 27, 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: JUNIPER BERRY ORGANIC ESSENTIAL OIL - 50013

Peak	RT (min)	Compound name	%
1	4,32	ACETONE	0,08
2	4,86	2-METHYL FURAN	0,02
3	6,57	TRICYCLENE	0,10
4	6,95	alpha-PINENE	37,57
5	6,97	alpha-THUYENE	1,30
6	7,24	TOLUENE	0,02
7	7,72	alpha-FENCHENE	0,03
8	7,95	CAMPHENE	0,29
9	9,21	beta-PINENE	2,37
10	9,68	SABINENE	7,02
11	9,76	PINADIENE	0,24
12	10,65	delta3-CARENE	0,05
13	10,68	MENTHATRIENE ISOMER	0,05
14	11,32	beta-MYRCENE	14,45
15	11,40	alpha-PHELLANDRENE	0,13
16	11,96	alpha-TERPINENE	0,59
17	12,63	MENTHATRIENE ISOMER	0,04
18	12,86	LIMONENE	2,90
19	13,27	beta-PHELLANDRENE	0,44
20	13,58	1,3,8-p-MENTHATRIENE	0,05
21	15,11	gamma-TERPINENE	1,08
22	15,43	trans-beta-OCIMENE	0,04
23	16,37	p-CYMENE	1,10
24	16,54	MENTHATRIENE ISOMER	0,01
25	17,06	TERPINOLENE	0,82
26	19,30	PINOL	0,03
27	23,74	GALBANOLENE	0,02
28	24,68	alpha-THUYONE	0,02
29	25,11	PERILLENE	0,06
30	25,29	COMPOUND Mw=152	0,03

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: JUNIPER BERRY ORGANIC ESSENTIAL OIL - 50013

Peak	RT (min)	Compound name	%
31	26,25	alpha-p-DIMETHYLSTYRENE	0,18
32	26,48	LINALOOL cis-OXIDE	0,04
33	26,61	MENTHATRIENIC COMPOUND	0,02
34	27,49	SESQUITERPENE	0,02
35	27,77	alpha-CUBEBENE	0,68
36	28,11	trans-THUYANOL	0,05
37	28,26	alpha-LONGIPINENE + FENCHYL ACETATE	0,03
38	28,41	SESQUITERPENE	0,06
39	29,01	delta-ELEMENE	0,01
40	29,27	YLANGENE	0,07
41	29,55	alpha-CAMPHOLENAL	0,09
42	29,88	alpha-COPAENE	0,84
43	30,91	CAMPHOR	0,04
44	31,05	alpha-PINOCAMPHONE	0,05
45	31,33	SESQUITERPENE	0,03
46	32,06	SESQUITERPENE	0,03
47	32,27	SESQUITERPENE	0,02
48	32,49	beta-PINOCAMPHONE	0,02
49	32,72	beta1-CUBEBENE	0,11
50	32,78	cis-THUYANOL	0,02
51	33,30	LINALOOL	0,10
52	33,33	SESQUITERPENE	0,33
53	34,07	SESQUITERPENE	0,03
54	34,15	LONGIFOLENE	0,04
55	34,33	METHYL CITRONELLATE	0,10
56	34,62	NOPINONE	0,02
57	34,80	epsilon-CADINENE	0,10
58	35,09	BORNYL ACETATE	0,23
59	35,15	ISOBORNYL ACETATE	0,04
60	35,37	FENCHOL	0,03

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: JUNIPER BERRY ORGANIC ESSENTIAL OIL - 50013

Peak	RT (min)	Compound name	%
61	35,63	alpha-trans-BERGAMOTENE	0,04
62	35,89	beta-ELEMENE	1,36
63	36,17	beta-CARYOPHYLENE	1,76
64	36,57	TERPINENE-4-OL	2,22
65	36,79	SESQUITERPENE	0,03
66	36,85	AROMADENDRENE	0,09
67	37,88	MYRTENAL	0,11
68	38,14	cis-p-MENTH-2-EN-1-OL	0,05
69	38,33	CADINA-3,5-DIENE	0,09
70	38,80	GERMACRENE A	0,55
71	39,07	ALLO-AROMADENDRENE	0,02
72	39,51	trans-PINOCARVEOL	0,21
73	40,03	ZONARENE	0,16
74	40,15	MENTHADIENOL ISOMER	0,06
75	40,32	CITRONELLYL ACETATE	0,04
76	40,52	alpha-HUMULENE	1,48
77	40,66	E-beta-FARNESENE	0,70
78	40,93	cis-4,5-MUUROLADIENE	0,10
79	41,03	gamma-SELINENE	0,07
80	41,08	cis-PIPERITOL	0,02
81	41,49	NERAL	0,02
82	41,72	gamma-MUUROLENE	1,09
83	41,93	gamma-CURCUMENE	0,02
84	42,17	TERPENYL ACETATE	0,12
85	42,30	alpha-TERPINEOL	0,39
86	42,60	BORNEOL	0,17
87	42,97	GERMACRENE D	3,39
88	43,09	CADINADIENE ISOMER	0,05
89	43,28	EREMOPHILENE	0,26
90	43,45	beta-SELINENE	0,58

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: JUNIPER BERRY ORGANIC ESSENTIAL OIL - 50013

Peak	RT (min)	Compound name	%
91	43,59	SESQUITERPENE	0,08
92	43,79	alpha-SELINENE	0,38
93	43,91	alpha-MUUROLENE	0,77
94	44,11	CARVONE	0,05
95	44,26	beta-BISABOLENE	0,08
96	44,31	BICYCLOGERMACRENE	0,20
97	44,52	SESQUITERPENE	0,02
98	44,88	beta-CURCUMENE	0,03
99	45,14	TERPENIC ESTER	0,08
100	45,48	E,E-alpha-FARNESENE	0,03
101	45,77	delta-CADINENE	3,20
102	45,81	gamma-CADINENE	0,53
103	45,95	SESQUITERPENE	0,04
104	46,35	delta-SELINENE	0,14
105	46,71	alpha-CURCUMENE	0,03
106	46,86	SELINADIENE ISOMER	0,15
107	46,95	SELINA-3,7-DIENE	0,18
108	47,18	CADINA-1,4-DIENE	0,12
109	47,59	MYRTENOL	0,08
110	47,74	alpha-AMORPHENE	0,18
111	48,19	MYRTENOL ISOMER	0,02
112	48,48	AROMATIC COMPOUND	0,01
113	49,71	GERMACRENE B	1,12
114	49,89	cis-CALAMENENE	0,04
115	49,96	trans-CALAMENENE	0,12
116	50,12	trans-CARVEOL	0,06
117	50,83	p-CYMENE-8-OL	0,11
118	51,93	MYRCENOL	0,02
119	53,31	Epi-CUBEBOL	0,02
120	54,46	alpha-CALACORENE	0,07

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: JUNIPER BERRY ORGANIC ESSENTIAL OIL - 50013

Peak	RT (min)	Compound name	%
121	56,11	CUBEBOL	0,01
122	56,78	beta-CALACORENE	0,02
123	57,65	ISOCARYOPHYLLENE EPOXIDE	0,03
124	58,11	CARYOPHYLLENE EPOXIDE	0,12
125	58,84	SESQUITERPENOL	0,03
126	59,03	SESQUITERPENOL	0,05
127	59,51	CHRYSANTHEMOL ISOMER	0,03
128	59,84	HUMULOL	0,02
129	61,06	EPOXY-6,7-HUMULENE	0,10
130	61,40	NEROLIDOL	0,04
131	61,74	GERMACRENE D-4-OL	0,05
132	62,06	Epi-CUBENOL	0,08
133	62,45	CUBENOL	0,09
134	62,68	IONONE ISOMER	0,02
135	63,02	GLOBULOL	0,02
136	63,29	ELEMOL	0,02
137	63,64	VIRIDIFLOROL	0,03
138	63,70	cis-1,2-DIHYDROXY-p-MENTH-2-ENE	0,01
139	63,97	CUMINOL	0,02
140	64,50	AROMATIC COMPOUND	0,03
141	64,91	SESQUITERPENOL	0,08
142	65,43	SPATHULENOL	0,17
143	66,13	DITERPENE Mw=272	0,02
144	67,63	SORBIC ACID	0,03
145	67,69	T-CADINOL	0,12
146	68,49	alpha-MUUROLOL	0,13
147	69,06	delta-CADINOL	0,05
148	69,61	GERANYLGERANIADIENE ISOMER	0,25
149	70,49	SESQUITERPENIC EPOXIDE	0,08
150	70,62	alpha-CADINOL	0,17

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: JUNIPER BERRY ORGANIC ESSENTIAL OIL - 50013

Peak	RT (min)	Compound name	%
151	71,17	MANOOL ISOMER	0,02
152	71,39	EUDESMA-7(11)-EN-4-OL	0,04
153	71,59	AROMATIC COMPOUND	0,03
154	71,89	GERANYLGERANIADIENE ISOMER	0,10
155	73,41	AROMATIC COMPOUND	0,04
156	73,66	SESQUITERPENOL	0,05
157	75,13	DITERPENE Mw=272	0,03
158	76,25	AROMATIC COMPOUND	0,03
159	77,00	SESQUITERPENOL	0,04
160	80,73	SESQUITERPENOL	0,02
161	81,86	SESQUITERPENOL	0,02
		TOTAL	99,93

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