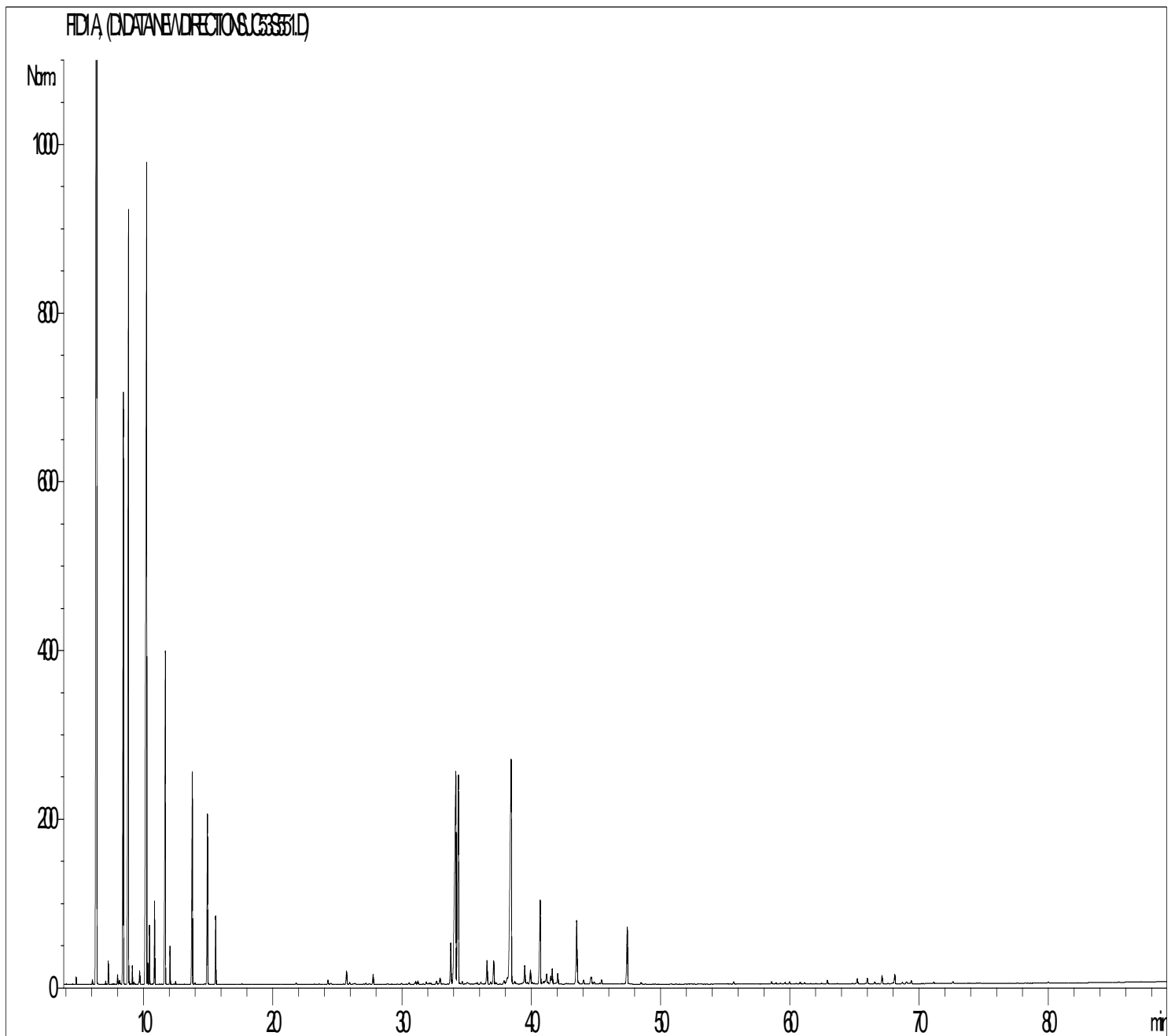




GCMS ANALYSIS

PRODUCT NAME: JUNIPER BERRY ESSENTIAL OIL (HUNGARY) - 11308

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: JUNIPER BERRY ESSENTIAL OIL (HUNGARY) - 11308

Peak	RT (min)	Compound name	%
1	6,0	TRICYCLENENE	0,04
2	6,3	alpha-PINENE	29,59
3	6,4	alpha-THUYENE	0,60
4	7,0	alpha-FENCHENE	0,03
5	7,2	CAMPHERE	0,18
6	7,6	HEXANAL	0,01
7	7,9	OCTADIENE DIMETHYL ISOMER	0,10
8	8,1	TRIMETHYL HEPTATRIENE ISOMER	0,05
9	8,4	beta-PINENE	6,96
10	8,7	SABINENE	10,08
11	8,9	PINADIENE	0,03
12	9,1	TERPENE ISOMER	0,16
13	9,2	TERPENE ISOMER	0,03
14	9,6	DIMETHYL OCTATETRAENE ISOMER	0,02
15	9,7	delta3-CARENE	0,15
16	10,2	beta-MYRCENE	14,65
17	10,3	alpha-PHELLANDRENE	0,13
18	10,4	psi-LIMONENE	0,48
19	10,6	o-CYMENE	0,01
20	10,8	alpha-TERPINENE	0,76
21	11,2	2,3-DEHYDRO-1,8-CINEOLE	0,01
22	11,6	LIMONENE	4,31
23	12,0	beta-PHELLANDRENE	0,37
24	12,3	MENTHATRIENE ISOMER	0,01
25	12,5	1,7-OCTADIENE-3,6-DIMETHYLENE	0,03
26	13,7	gamma-TERPINENE	2,71
27	13,9	Trans-beta-OCIMENE	0,02
28	14,7	m-CYMENE	0,01
29	14,9	p-CYMENE	2,04
30	15,5	TERPINOLENE	0,78

Disclaimer & Caution:

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: JUNIPER BERRY ESSENTIAL OIL (HUNGARY) - 11308

Peak	RT (min)	Compound name	%
31	17,6	PINOL	0,01
32	21,8	GALBANOLENE	0,02
33	24,2	alpha,p-DIMETHYLSTYRENE	0,06
34	24,4	Cis-LINALOOL OXIDE	0,02
35	25,7	alpha-CUBEBENE	0,20
36	25,9	Trans-THUYANOL	0,03
37	26,2	SESQUITERPENE	0,01
38	26,3	delta-ELEMENE	0,02
39	27,2	SESQUITERPENE	0,02
40	27,7	alpha-COPAENE	0,15
41	29,2	AROMATIC COMPOUND	0,02
42	30,5	beta1-CUBEBENE	0,03
43	30,9	Cis-THUYANOL	0,01
44	31,0	LINALOOL	0,04
45	31,2	SESQUITERPENE	0,06
46	31,8	Trans-p-MENTH-2-EN-1-OL	0,04
47	32,1	METHYL CITRONELLATE	0,02
48	32,2	LONGIFOLENE	0,02
49	32,6	epsilon-CADINENE	0,06
50	32,9	BORNYL ACETATE	0,12
51	33,7	beta-ELEMENE	0,65
52	34,1	beta-CARYOPHYLLENE	5,78
53	34,2	TERPINENE-4-OL	3,81
54	34,6	AROMADENDRENE	0,04
55	35,0	SESQUITERPENE	0,05
56	35,8	Cis-p-MENTH-2-EN-1-OL	0,02
57	36,1	CADINA-3,5-DIENE	0,04
58	36,5	GERMACRENE A	0,42
59	36,8	SESQUITERPENE	0,04
60	37,0	SESQUITERPENE	0,39

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GCMS ANALYSIS (cont'd.)
PRODUCT NAME: JUNIPER BERRY ESSENTIAL OIL (HUNGARY) - 11308

Peak	RT (min)	Compound name	%
61	37,2	Trans-PINOCARVEOL	0,02
62	37,9	ZONARENE	0,08
63	38,1	SESQUITERPENE	0,14
64	38,4	alpha-HUMULENE	6,33
65	38,7	gamma-SELINENE	0,06
66	39,4	gamma-MUUROLENE	0,35
67	39,6	TERPENYL ACETATE	0,04
68	39,9	alpha-TERPINEOL	0,25
69	40,0	BORNEOL	0,03
70	40,7	GERMACRENE D	1,52
71	40,9	CADINADIENE ISOMER	0,05
72	41,0	MUUROLADIENE ISOMER	0,04
73	41,1	beta-SELINENE	0,18
74	41,2	SESQUITERPENE	0,03
75	41,4	alpha-SELINENE	0,12
76	41,5	alpha-MUUROLENE	0,23
77	42,0	BICYCLOGERMACRENE	0,18
78	43,4	delta-CADINENE	1,01
79	43,5	gamma-CADINENE	0,24
80	44,0	delta-SELINENE	0,07
81	44,5	SELINADIENE ISOMER	0,10
82	44,6	SELINA-3,7-DIENE	0,08
83	44,8	CADINA-1,4-DIENE	0,04
84	45,4	alpha-AMORPHENE	0,06
85	47,4	GERMACRENE B	1,02
86	48,4	p-CYMENE-8-OL	0,03
87	55,6	CARYOPHYLLENE EPOXIDE	0,04
88	58,5	Époxy-6,7-HUMULENE	0,05
89	58,9	NEROLIDOL	0,02
90	59,2	GERMACRA-1,5-DIEN-4-OL	0,02

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: JUNIPER BERRY ESSENTIAL OIL (HUNGARY) - 11308

Peak	RT (min)	Compound name	%
91	59,6	Epi-CUBENOL	0,03
92	59,9	CUBENOL	0,04
93	60,4	LEDOL	0,01
94	60,8	ELEMOL	0,04
95	61,1	GLOBULOL	0,03
96	62,0	SESQUITERPENOL	0,01
97	62,4	SESQUITERPENOL	0,02
98	62,8	SPATHULENOL	0,06
99	65,0	EUDESMOL ISOMER	0,01
100	65,2	T-CADINOL	0,08
101	65,9	alpha-MUUROLOL	0,09
102	66,5	delta-CADINOL	0,03
103	67,1	GERANYLGERANIADIENE ISOMER Mw=272	0,13
104	67,5	alpha-EUDESMOL	0,01
105	67,9	beta-EUDESMOL	0,02
106	68,1	alpha-CADINOL	0,15
107	68,6	SESQUITERPENOL	0,02
108	69,0	SESQUITERPENIC EPOXIDE	0,04
109	69,3	GERANYLGERANIADIENE ISOMER Mw=272	0,05
110	71,1	SESQUITERPENOL	0,03
111	72,6	DITERPENE Mw=272	0,04
112	79,9	ABIETATRIENE	0,02
113	96,6	PALMITIC ACID	0,05
		TOTAL	99,99

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