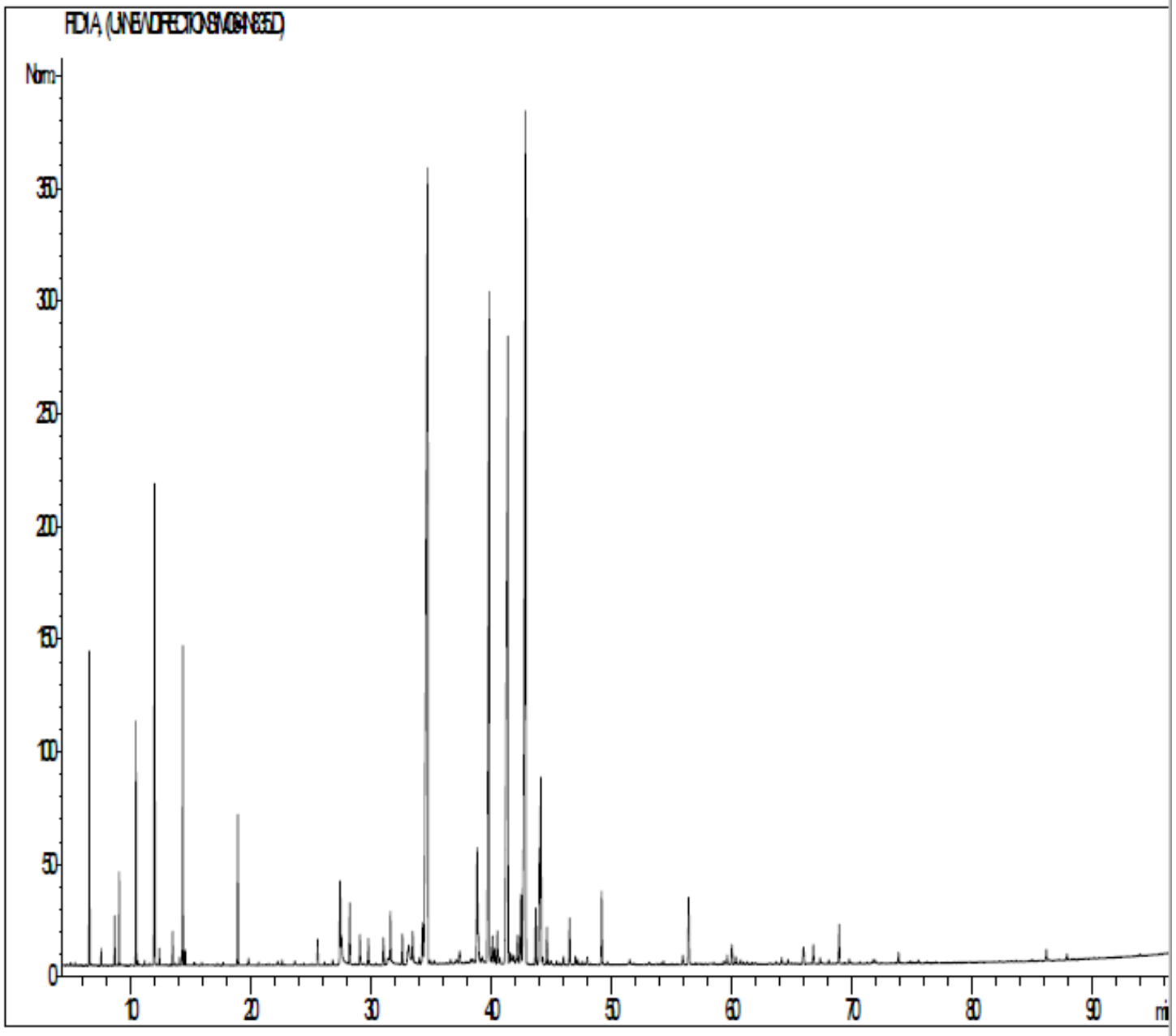




GCMS ANALYSIS

PRODUCT NAME: MELISSA LEAF (SLOVENIA) ESSENTIAL OIL - 11091

DATE: September 28, 2017



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: MELISSA LEAF (SLOVENIA) ESSENTIAL OIL - 11091

Peak	RT (min)	Compound	%
1	4,3	ACETONE	0,01
2	5,0	BUTANAL,2-METHYL	0,01
3	5,1	ISOVALERALDEHYDE	0,02
4	5,4	FURAN,2-ETHYL	0,01
5	6,6	□-PINENE	1,58
6	6,7	□-THUYENE	0,07
7	7,6	CAMPHENE	0,09
8	8,7	□-PINENE	0,31
9	9,1	SABINENE	0,58
10	9,2	PINADIENE	0,02
11	10,0	□3-CARENE	0,01
12	10,5	□-MYRCENE	1,68
13	10,6	□-PHELLANDRENE	0,03
14	10,8	Ψ-LIMONENE	0,01
15	11,2	□-TERPINENE	0,04
16	11,6	1,8-CINEOLE, 2,3-DEHYDRO-	0,01
17	12,0	LIMONENE	4,00
18	18,2	ALIPHATIC ALCOHOL	0,01
19	13,3	2-ETHYL FURAN	0,01
20	13,5	Cis-□-OCIMENE	0,26
21	13,7	ALIPHATIC ESTER	0,02
22	14,1	□-TERPINENE	0,06
23	14,4	Trans-β-OCIMENE	2,74
24	14,6	3-OCTANONE	0,12
25	15,3	p-CYMENE	0,02
26	15,4	HEXYL ACETATE	0,01
27	15,9	TERPINOLENE	0,02
28	16,3	ALIPHATIC ESTER	0,02
29	17,3	ALIPHATIC ALCOHOL	0,03
30	17,7	ACETATE DE 3-HEXEN-1-OL	0,02

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GCMS ANALYSIS (cont'd.)
PRODUCT NAME: MELISSA LEAF (SLOVENIA) ESSENTIAL OIL - 11091

Peak	RT (min)	Compound	%
31	18,9	6-METHYL-5-HEPTEN-2-ONE	1,37
32	19,8	ROSE cis-OXIDE	0,07
33	20,7	ROSE trans-OXIDE	0,03
34	22,3	NONANAL	0,07
35	22,6	PERILLENE	0,05
36	23,7	PHOTOCITRAL ISOMER	0,06
37	24,4	COMPOUND Mw=152	0,04
38	25,6	1-OCTEN-3-OL	0,25
39	26,2	□-CUBEBENE	0,03
40	26,8	□-ELEMENE	0,07
41	27,4	CITRONELLAL	1,34
42	27,6	ISOGERANIAL	0,25
43	28,3	□-COPAENE	0,72
44	29,1	ISONERAL	0,33
45	29,8	□-BOURBONENE	0,33
46	31,0	□1-CUBEBENE	0,33
47	31,3	PHOTOCITRAL A	0,41
48	31,6	LINALOL	0,49
49	32,6	METHYL CITRONELLATE	0,33
50	33,1	ISOPULEGOL + PHOTOCITRAL B	0,18
51	33,2	□-CADINENE	0,38
52	33,5	BORNYL ACETATE	0,40
53	34,0	□-trans-BERGAMOTENE	0,08
54	34,3	□-ELEMENE	0,55
55	34,7	□-CARYOPHYLLENE	20,56
56	34,9	TERPINENE-4-OL	0,07
57	35,3	LAVANDULYL ACETATE	0,05
58	36,6	CADINA-3,5-DIENE	0,07
59	37,1	SESQUITERPENE	0,11
60	37,4	ALLO-AROMADENDRENE	0,23

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GCMS ANALYSIS (cont'd.)
PRODUCT NAME: MELISSA LEAF (SLOVENIA) ESSENTIAL OIL - 11091

Peak	RT (min)	Compound	%
62	38,5	ZONARENE	0,09
63	38,6	METHYL NERATE	0,04
64	38,8	□-HUMULENE	1,65
65	38,9	E-□-FARNESENE	0,35
66	39,3	SESQUITERPENE	0,15
67	39,4	SESQUITERPENE	0,08
68	39,8	NERAL	11,50
62	38,5	ZONARENE	0,09
69	40,1	SESQUITERPENE	0,30
70	40,3	SESQUITERPENE	0,23
71	40,5	METHYL GERANATE	0,38
72	40,7	SESQUITERPENE	0,10
73	41,4	GERMACRENE D	14,33
74	41,6	SESQUITERPENE	0,14
75	41,8	□-BISABOLENE	0,18
76	41,9	SESQUITERPENE	0,10
77	42,2	□-SELINENE	0,43
78	42,5	□-MUUROLENE	0,88
79	42,9	GERANIAL	17,20
80	43,7	□-FARNESENE	0,63
81	44,0	GERANYL ACETATE	1,42
82	44,1	□-CADINENE	2,20
83	44,3	□-CADINENE	0,09
84	44,6	CITRONELLOL	0,42
85	44,9	□-CURCUMENE	0,08
86	45,5	CADINA-1,4-DIENE	0,05
87	46,0	□-AMORPHENE	0,10
88	46,5	NEROL	0,51
89	47,0	Cis-ISOGERANIOL	0,10
90	47,2	Trans-ISOGERANIOL	0,07

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GCMS ANALYSIS (cont'd.)
PRODUCT NAME: MELISSA LEAF (SLOVENIA) ESSENTIAL OIL - 11091

Peak	RT (min)	Compound	%
91	47,6	□-DAMASCENONE	0,04
92	48,0	GERMACRENE B	0,09
93	49,2	GERANIOL	0,82
94	49,7	E-GERANYL ACETONE	0,03
95	51,5	Epi-CUBEBOL	0,06
96	53,1	HUMULENE OXIDE	0,07
97	54,3	CUBEBOL	0,04
98	55,9	ISOCARYOPHYLLENE OXIDE	0,12
99	56,4	CARYOPHYLLENE OXIDE	0,84
100	58,5	AROMATIC COMPOUND	0,05
101	59,4	Epoxy-6,7-HUMULENE	0,04
102	59,6	NEROLIDOL	0,10
103	60,0	SESQUITERPENOL	0,23
104	60,3	SESQUITERPENOL	0,13
105	60,7	Epi-CUBEBOL	0,06
106	61,0	SESQUITERPENOL	0,05
107	61,3	CUBEBOL	0,04
108	63,7	SPATHULENOL	0,03
109	64,2	PENTADECANONE TRIMETHYL	0,08
110	64,7	EUDESMOL ISOMERE	0,06
111	66,0	T-CADINOL	0,28
112	66,8	□-MUUROLOL	0,22
113	67,4	□-CADINOL	0,07
114	68,1	GERANYL-□-TERPINENE	0,04
115	68,9	□-CADINOL	0,49
116	69,7	CITRONELLIC ACID	0,05
117	70,6	SESQUITERPENOL	0,03
118	71,3	SESQUITERPENOL	0,03
119	71,7	NERIC ACID	0,07
120	71,8	CARYOPHYLLA-3,7-DIEN-6-OL	0,05

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: MELISSA LEAF (SLOVENIA) ESSENTIAL OIL - 11091

Peak	RT (min)	Compound	%
121	73,9	GERANIC ACID	0,13
122	74,8	SESQUITERPENOL	0,02
123	75,5	SESQUITERPENOL	0,04
124	86,2	PHYTOL	0,13
125	87,8	AROMATIC COMPOUND	0,08
126	93,9	AROMATIC COMPOUND	0,04
127	97,6	PALMITIC ACID	0,05
		TOTAL	99,89

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