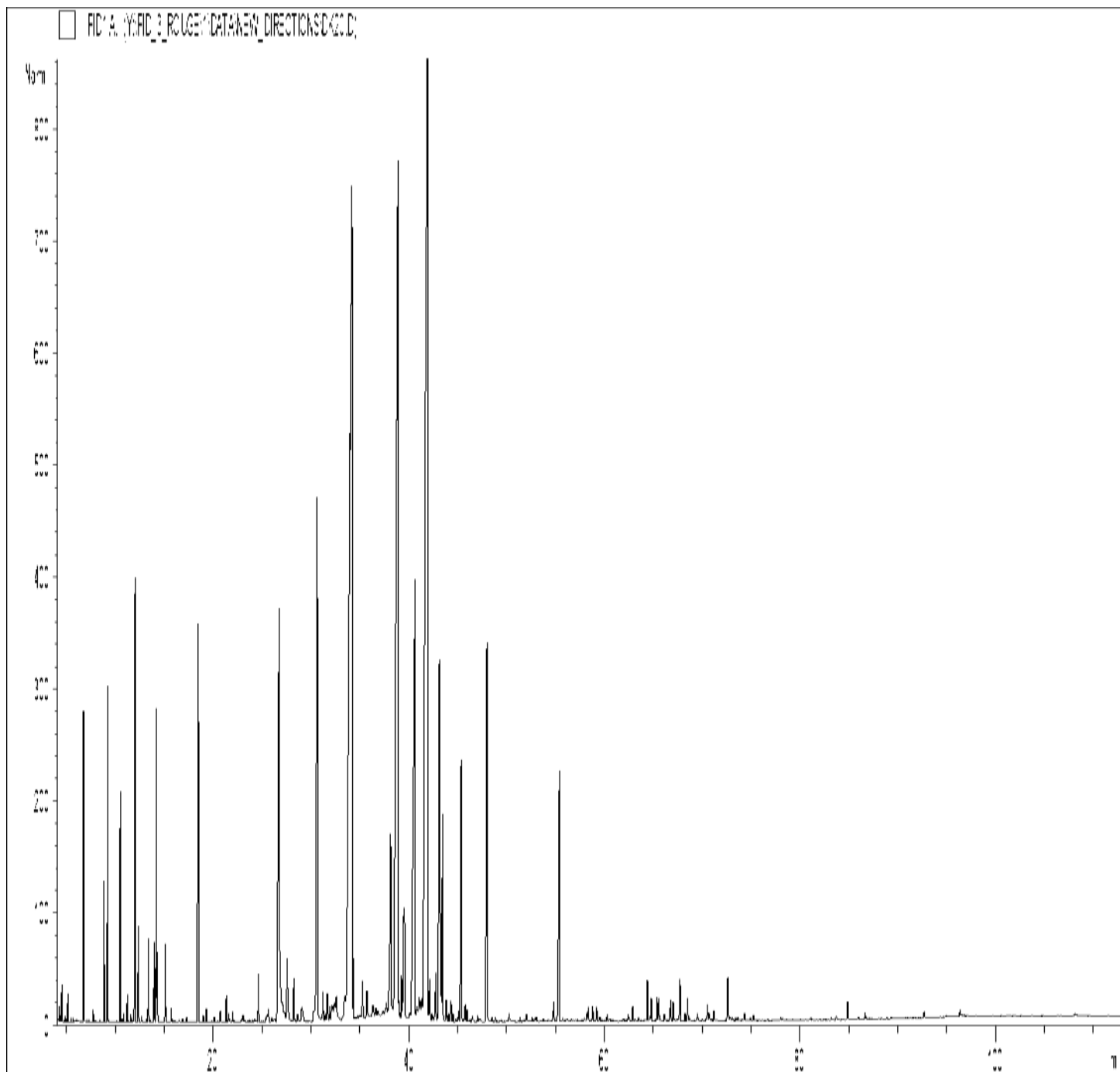


GCMS ANALYSIS

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

DATE: December 16, 2020



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

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Peak	RT (min)	Compound name	%
1	4,27	ACETONE	0,04
2	4,52	METHYLETHYL-METHYL-CYCLOPENTANE ISOMER	0,08
3	4,87	METHYLETHYL-METHYL-CYCLOPENTANE ISOMER	0,02
4	5,05	BUTANAL, 2-METHYL-	0,01
5	5,09	ISOVALERALDEHYDE	0,02
6	5,12	ETHANOL	0,06
7	5,48	FURAN, 2-ETHYL-	0,01
8	6,73	alpha-PINENE	0,92
9	7,07	PRENOL	0,01
10	7,26	COMPOUND Mw=124	0,01
11	7,72	CAMPHENE	0,04
12	7,99	HEXANAL	0,01
13	8,84	beta-PINENE	0,49
14	9,20	SABINENE	1,10
15	10,10	delta3-CARENE	0,01
16	10,50	beta-MYRCENE	0,79
17	10,67	beta-PHELLANDRENE	0,01
18	10,82	psi-LIMONENE	0,03
19	11,21	alpha-TERPINENE	0,10
20	11,57	1,8-CINEOLE, 2,3-DEHYDRO-	0,03
21	11,86	ALIPHATIC ALCOHOL	0,02
22	12,01	LIMONENE	1,86
23	12,30	1,8-CINEOLE	0,29
24	12,34	alpha-PHELLANDRENE	0,10
25	12,69	1,3,8-p-MENTHATRIENE	0,03
26	13,21	FURAN, 2-PENTYL	0,01
27	13,38	cis-beta-OCIMENE	0,32
28	13,97	gamma-TERPINENE	0,32
29	14,20	trans-beta-OCIMENE	1,37
30	14,30	3-OCTANONE	0,22

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Peak	RT (min)	Compound name	%
31	15,10	p-CYMENE	0,30
32	15,72	TERPINOLENE	0,06
33	15,96	TRIDECANE	0,01
34	16,52	ALIPHATIC ESTER	0,02
35	16,88	1,3,7-NONATRIENE, 4,8-DIMETHYL-	0,02
36	17,29	3-HEXEN-1-OL ACETATE	0,03
37	18,47	5-HEPTEN-2-ONE, 6-METHYL-	2,09
38	18,98	1-HEXANOL	0,03
39	19,31	ROSE cis-OXIDE	0,07
40	20,12	ROSE trans-OXIDE	0,03
41	20,45	ALLO-OCIMENE	0,01
42	20,74	3-HEXEN-1-OL	0,06
43	21,34	3-OCTANOL	0,11
44	21,58	NONANAL	0,06
45	21,99	ANISALDEHYDE, TRIMETHYL-	0,05
46	22,92	HEXYL METHYLPROPIONATE	0,02
47	23,05	PHOTOCITRAL ISOMER	0,05
48	23,23	cis-p-MENTHANE-8-OL	0,01
49	23,73	trans-p-MENTHANE-8-OL	0,01
50	24,05	ALIPHATIC ESTER	0,01
51	24,22	alpha,p-DIMETHYLSTYRENE	0,02
52	24,29	LINALOOL Cis-OXIDE	0,01
53	24,44	COMPOUND Mw=174	0,01
54	24,62	1-OCTEN-3-OL	0,22
55	25,38	5-HEPTEN-2-OL, 6-METHYL- + alpha-CUBEBENE	0,02
56	25,52	trans-THUYANOL	0,05
57	25,63	ISOMENTHONE	0,09
58	26,00	NERYL OXIDE	0,04
59	26,30	AROMATIC COMPOUND	0,05
60	26,74	CITRONELLAL	4,46

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Peak	RT (min)	Compound name	%
61	27,56	alpha-COPAENE	0,47
62	28,24	ISONERAL	0,24
63	28,62	CAMPHOR	0,07
64	29,06	beta-BOURBONENE	0,22
65	29,72	BENZALDEHYDE	0,02
66	30,09	PHOTOCITRAL A	0,56
67	30,64	LINALOOL	3,54
68	31,09	1-OCTANOL	0,01
69	31,21	LINALYL ACETATE	0,14
70	31,48	ISOPULEGOL	0,04
71	31,67	METHYL CITRONELLATE	0,19
72	31,94	epsilon-CADINENE	0,09
73	32,04	PHOTOCITRAL B	0,54
74	32,41	BORNYL ACETATE	0,09
75	32,59	alpha-trans-BERGAMOTENE	0,12
76	33,44	beta-ELEMENE	0,29
77	34,17	beta-CARYOPHYLLENE	16,68
78	34,29	cis-DIHYDROCARVONE	0,36
79	34,77	CITRONELLYL FORMIATE	0,02
80	35,27	METHYL NERATE	0,19
81	35,72	trans-DIHYDROCARVONE	0,22
82	36,32	CADINA-3,5-DIENE	0,11
83	36,64	GERMACRENE A	0,05
84	36,84	ALLO-AROMADENDRENE	0,03
85	37,36	ZONARENE	0,04
86	37,71	CITRONELLYL ACETATE	0,10
87	38,05	E-beta-FARNESENE	0,33
88	38,15	alpha-HUMULENE	1,15
89	38,88	NERAL	13,93
90	38,95	trans-VERBENOL	0,11

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Peak	RT (min)	Compound name	%
91	39,05	Z-beta-FARNESENE	0,07
92	39,26	gamma-CURCUMENE	0,26
93	39,50	METHYL GERANATE	1,15
94	39,55	BORNEOL	0,32
95	40,09	GERANYL FORMATE	0,04
96	40,64	GERMACRENE D	6,00
97	40,82	MUUROLENE ISOMER	0,05
98	41,06	beta-BISABOLENE	0,12
99	41,33	alpha-MUUROLENE	0,06
100	41,96	GERANIAL	20,52
101	42,15	BICYCLOGERMACRENE	0,33
102	42,76	E,E-alpha-FARNESENE	0,32
103	43,13	GERANYL ACETATE	2,36
104	43,20	delta-CADINENE	0,62
105	43,29	gamma-CADINENE	0,20
106	43,46	CITRONELLOL	1,16
107	43,83	alpha-CURCUMENE	0,15
108	44,06	beta-SESQUIPHELLANDRENE	0,04
109	44,32	METHYL SALICYLATE	0,14
110	44,54	CADINA-1,4-DIENE	0,05
111	44,82	gamma-GERANIOL	0,02
112	45,09	alpha-AMORPHENE	0,06
113	45,36	NEROL	1,54
114	45,77	cis-ISOGERANIOL	0,10
115	45,96	trans-ISOGERANIOL	0,07
116	46,51	beta-DAMASCENONE	0,04
117	47,05	GERMACRENE B	0,04
118	47,29	CALAMENENE	0,04
119	47,99	GERANIOL	2,56
120	48,52	E-GERANYL ACETONE	0,03

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Peak	RT (min)	Compound name	%
121	48,85	AROMATIC COMPOUND	0,02
122	50,26	epi-CUBEBOL	0,05
123	51,38	PHYTYL ACETATE	0,02
124	52,05	HUMULENE EPOXIDE	0,06
125	52,62	CUBEBOL	0,03
126	53,06	beta-IONONE	0,03
127	53,75	SESQUITERPENOL	0,02
128	54,82	ISOCARYOPHYLLENE OXIDE	0,14
129	55,41	CARYOPHYLLENE OXIDE	1,87
130	55,75	SESQUITERPENOL	0,03
131	57,96	ALIPHATIC ALCOHOL	0,03
132	58,22	epoxy-6,7-HUMULENE	0,05
133	58,36	NEROLIDOL	0,08
134	58,80	GERMACRA-1,5-DIEN-4-OL	0,09
135	59,22	epi-CUBENOL	0,10
136	59,55	CUBENOL	0,03
137	60,29	ELEMOL	0,04
138	62,45	SPATHULENOL	0,05
139	62,89	PENTADECANONE, TRIMETHYL-	0,08
140	63,50	FOKIENOL	0,03
141	64,41	EUGENOL	0,22
142	64,66	gamma-EUDESMOL	0,03
143	64,81	T-CADINOL	0,13
144	65,40	THYMOL	0,13
145	65,57	alpha-MUUROLOL	0,13
146	66,14	delta-CADINOL	0,05
147	66,29	GERANYL-alpha-TERPINENE	0,02
148	66,76	CARVACROL	0,12
149	67,02	alpha-BISABOLOL	0,11
150	67,42	ISOSPATHULENOL	0,02

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Peak	RT (min)	Compound name	%
151	67,59	SESQUITERPENIC EPOXIDE	0,02
152	67,72	alpha-CADINOL	0,24
153	68,25	ESTER LACHNOPHYLLUM METHYL	0,05
154	68,50	CITRONELIC ACID	0,13
155	68,68	SESQUITERPENOL Mw=222	0,02
156	69,52	AROMATIC COMPOUND	0,06
157	70,54	NERIC ACID	0,10
158	70,72	CARYOPHYLLADIENOL ISOMER	0,04
159	71,18	CARYOPHYLLA-2,6-DIEN-5-alpha-OL	0,06
160	72,61	GERANIC ACID	0,27
161	73,43	SESQUITERPENIC OXIDE	0,02
162	73,63	SESQUITERPENIC OXIDE	0,02
163	74,33	SESQUITERPENIC OXIDE	0,05
164	75,23	SESQUITERPENIC OXIDE	0,03
165	78,03	AROMATIC COMPOUND	0,02
166	83,71	AROMATIC COMPOUND	0,03
167	84,86	PHYTOL	0,10
168	86,66	AROMATIC COMPOUND	0,03
169	92,69	COMPOUND Mw=220	0,04
170	96,36	PALMITIC ACID	0,06
		TOTAL	99,96

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