



Healing Body, Mind, and Spirit  
with Pure Essential Oils Since 1995

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**Certificate of Analysis:** Melissa Essential Oil, *Melissa officinalis*, England.

Batch number: LB14.20

Part: Leaf and Flower

Date of Analysis: 12/03/2014

Packaging: Blue flask of 5 ml – ambient temperature

Analysis: Classic GC/MS/FID

Shelf life: 1 year

Validated report by:

Daniel DANTIN

A handwritten signature in black ink, appearing to read "Daniel Dantin", is written over a horizontal line.

**GAS CHROMATOGRAPHY, Norm NF ISO 11024 Analysis Conditions:**

CPG 5890 / MS 5970 – Column: VF WAX polar 60 m × 0,25 mm × 0,5 µm

CPG 5890 FID - Column: HP INNOWAX polar 60 m × 0,25 mm × 0,5 µm

Temperature program: 6 mn to 60 °C –2 °C/mn→250 °C - 20mn to 250 °C

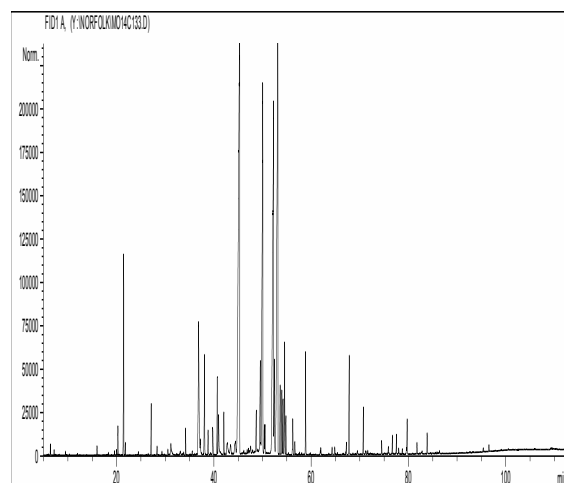
Carrier gas He: 23 psis/MS – 30 psis/FID

Sample injection / split: 1 µl of 10 % solution in hexane,

Mass range: 30 to 350, Oil components are identified by a combination of retention times (our own database) and mass spectra library NKS 75 000 records,

Percentages are calculated from GC/FID peaks areas without using corrections factors,

**Chromatographic profile (GC/FID):**





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Peak	RT (min)	Compound name	%	Norm (%)	Allergens (%)
1	4,6	OCTANE	0,02		
2	4,8	ACETONE	0,02		
3	5,7	CYCLOALKYL COMPOUND	0,01		
4	5,9	FURAN METHYL	0,01		
5	6,0	METHYL METHYLETHYL CYCLOPENTANE	0,01		
6	6,3	BUTANAL 2-METHYL	0,06		
7	6,4	ISOVALERALDEHYDE	0,07		
8	7,1	FURAN, 2-ETHYL	0,03		
9	8,2	CYCLOHEXENE ETHYL	0,01		
10	9,5	$\alpha$ -PINENE	0,04		
11	9,6	$\alpha$ -THUYENE	0,01		
12	9,7	PRENOL	0,01		
13	10,3	FURAN, 2,5-DIETHYLTETRAHYDRO	0,01		
14	11,9	HEXANAL	0,02		
15	13,3	$\beta$ -PINENE	0,01		
16	13,8	SABINENE	0,01		
17	16,0	$\beta$ -MYRCENE	0,10		
18	17,4	2,3-DEHYDRO-1,8-CINEOLE	0,01		
19	17,8	ISOAMYL ALCOHOL	0,01		
20	18,3	LIMONENE	0,04		0,04
21	18,9	1,8-CINEOLE	0,01		
22	19,3	MENTHATRIENE ISOMER	0,01		
23	19,6	2-HEXENAL	0,06		
24	20,0	FURAN, 2-PENTYL	0,06		
25	20,3	Cis- $\beta$ -OCIMENE	0,31		
26	20,9	ARBUSCULONE ISOMERE	0,01		
27	21,1	$\gamma$ -TERPINENE	0,01		
28	21,5	<b>Trans-<math>\beta</math>-OCIMENE</b>	<b>3,00</b>		
29	21,8	3-OCTANONE	0,13		
30	22,3	HEXYL ACETATE	0,01		
31	22,7	p-CYMENE	0,01		
32	23,6	TERPINOLENE	0,01		
33	23,7	ISOBUTYL ANGELATE	0,01		
34	23,8	OCTANAL	0,01		
35	24,0	ALIPHATIC ESTER	0,01		
36	24,2	MENTADIENE ISOMER	0,01		
37	24,5	Cis-3-HEXENYL ACETATE	0,05		
38	26,2	HEXENYL ACETATE ISOMER	0,01		
39	26,5	2-HEPTENAL	0,02		
40	27,1	6-METHYL-5-HEPTEN-2-ONE	0,58		
41	27,7	1-HEXANOL	0,01		
42	28,3	ROSE cis-OXIDE	0,15		
43	29,3	ROSE trans-OXIDE	0,06		
44	29,5	METHALLYL ANGELATE	0,01		
45	29,8	ALLO-OCIMENE	0,02		
46	30,1	3-HEXEN-1-OL	0,01		

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47	30,4	3-OCTANOL	0,03		
48	30,5	2-METHYLBUTYL ANGELATE	0,05		
49	30,9	ISOAMYL ANGELATE	0,02		
50	31,1	NONANAL	0,34		
51	31,3	ANISALDEHYDE TRIMETHYL	0,10		
52	32,3	Cis-p-MENTHANE-3,8-DIOL	0,02		
53	32,9	PERILLENE + Trans-p-MENTHANE-3,8-DIOL	0,01		
54	33,1	PHOTOCITRAL ISOMERE Mw=152	0,12		
55	33,6	AROMATIC COMPOUND	0,04		
56	33,8	$\alpha$ ,p-DIMETHYLSTYRENE	0,05		
57	34,2	1-OCTEN-3-OL + LINALOOL cis-OXIDE	0,33		
58	35,1	6-METHYL-5-HEPTEN-2-OL	0,02		
59	35,5	$\alpha$ -CUBEBENE	0,06		
60	36,1	NERYL OXIDE	0,03		
61	36,8	<b>CITRONELLAL</b>	<b>4,06</b>		
62	37,2	ISOGERANIAL	0,35		
63	38,1	$\alpha$ -COPAENE	1,82		
64	48,8	ISONERAL	0,40		
65	39,3	$\alpha$ -BOURBONENE	0,06		
66	39,8	$\beta$ -BOURBONENE	0,54		
67	40,6	LINALOL	0,95		0,95
68	41,0	PHOTOCITRAL A	1,04		
69	42,1	METHYL CITRONELLATE	0,58		
70	42,3	NEOISOPULEGOL	0,04		
71	42,8	ISOPULEGOL + PHOTOCITRAL B	0,64		
72	43,4	$\epsilon$ -CADINENE	0,38		
73	44,4	$\beta$ -ELEMENE	0,67		
74	44,6	TERPINENE-4-OL	0,09		
75	45,3	<b><math>\beta</math>-CARYOPHYLENE</b>	<b>21,81</b>		
76	45,8	SESQUITERPENE	0,04		
77	46,2	Cis-p-MENTHA-1,8-DIEN-2-OL	0,10		
78	46,8	CADINA-3,5-DIENE	0,11		
79	47,1	METHYL GERANATE	0,14		
80	47,5	CADINADIENE ISOMER	0,09		
81	47,6	SESQUITERPENE	0,09		
82	48,0	ALLO-AROMADENDRENE	0,12		
83	48,7	E- $\beta$ -FARNESENE	0,96		
84	49,0	ZONARENE	0,12		
85	49,5	$\alpha$ -HUMULENE	1,87		
86	50,0	<b>NERAL</b>	<b>10,53</b>		10,53
87	50,3	METHYL GERANATE	0,42		
88	50,5	$\gamma$ -MUUROLENE	0,43		
89	50,8	GERANYL FORMIATE	0,08		
90	52,0	SESQUITERPENE	0,20		
91	52,3	<b>GERMACRENE D</b>	<b>13,15</b>		
92	52,4	Z,E- $\alpha$ -FARNESENE	1,60		

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93	52,9	$\alpha$ -MUUROLENE	0,20		
94	53,1	<b>GERANIAL</b>	<b>16,20</b>		16,20
95	53,5	BICYCLOGERMACRENE	0,20		
96	53,6	$\alpha$ -FARNESENE	0,79		
97	54,0	GERANYL ACETATE	0,84		
98	54,2	CITRONELLOL	0,75		0,75
99	54,5	$\delta$ -CADINENE	1,98		
100	54,8	$\gamma$ -CADINENE	0,61		
101	55,3	METHYL SALICYLATE	0,04		
102	56,1	CADINA-1,4-DIENE	0,07		
103	56,2	NEROL	0,46		
104	56,6	$\alpha$ -AMORPHENE	0,19		
105	56,8	cis-ISOGGERANIOL	0,01		
106	57,0	Trans-ISOGGERANIOL	0,02		
107	57,4	ALIPHATIC ALDEHYDE	0,02		
108	57,6	2,4-DECADIENAL	0,04		
109	58,1	$\beta$ -DAMASCENONE	0,04		
110	58,5	HYDROXY PHENYL PROPANONE Mw=150	0,02		
111	58,8	<b>GERANIOL</b>	<b>1,44</b>		1,44
112	59,8	E-GERANYLACETONE	0,03		
113	61,8	AROMATIC COMPOUND	0,06		
114	62,0	EPI-CUBEBOL	0,09		
115	63,6	CALACORENE	0,03		
116	64,3	HUMULENE EPOXIDE	0,15		
117	64,8	CUBEBOL	0,13		
118	65,3	AROMATIC COMPOUND	0,03		
119	66,6	SESQUITERPENIC EPOXIDE	0,04		
120	67,0	SESQUITERPENOL	0,02		
121	67,2	ISOCARYOPHYLLENE EPOXIDE	0,20		
122	67,8	CARYOPHYLLENE EPOXIDE	1,65		
123	68,6	METHYL METHYL BENZOATE	0,04		
124	69,5	NEROLIDOL	0,10		
125	70,6	GERMACRA-1,5-DIEN-4-OL	0,57		
126	70,7	Epoxy-6,7-HUMULENE	0,10		
127	71,2	Epi-CUBENOL	0,10		
128	71,6	CUBENOL	0,09		
129	72,2	SESQUITERPENOL	0,05		
130	74,5	TRIMETHYL PENTADECANONE	0,19		
131	74,6	SPATHULENOL	0,01		
132	75,7	FOKIENOL	0,07		
133	75,8	EUGENOL	0,08		0,08
134	76,6	T-CADINOL	0,27		
135	77,5	$\alpha$ -MUUROL	0,31		
136	78,0	CADINOL ISOMER	0,11		
137	78,7	GERANYL- $\alpha$ -TERPINENE ISOMER	0,09		
138	79,6	$\alpha$ -CADINOL	0,50		

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139	79,7	CITRONELLIC ACID	0,10		
140	81,7	NERIC ACID	0,18		
141	82,6	GERANYL-p-CYMENE ISOMERE	0,03		
142	82,8	CARYOPHYLLA-3,7-DIEN-6-OL	0,06		
143	83,8	GERANIC ACID	0,31		
144	85,5	ALIPHATIC COMPOUND	0,02		
145	85,8	SESQUITERPENOL Mw=220	0,03		
146	86,4	SESQUITERPENIC EPOXYDE	0,07		
147	95,4	OCTADECANOL	0,06		
148	96,5	PHYTOL	0,09		
149	109,3	DIISOCTYL PHTHALATE	0,07		
		<b>TOTAL</b>	<b>99,85</b>		<b>29,99</b>

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