



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

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**Certificate of Analysis:** English Chamomile, *Anthemis nobilis* (syn *Chamaemelum nobile*), ethically farmed, steam-distilled flowers, England.

Batch No: EN-EC 15.152

Date of Analysis: 05/12/2016

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 6890 / MS 5973 AGILENT – Column: VF WAX polar 60 m × 0,25 mm × 0,5 µm

CPG 6890 FID AGILENT - Column: VF WAX polar 60 m × 0,25 mm × 0,5 µm

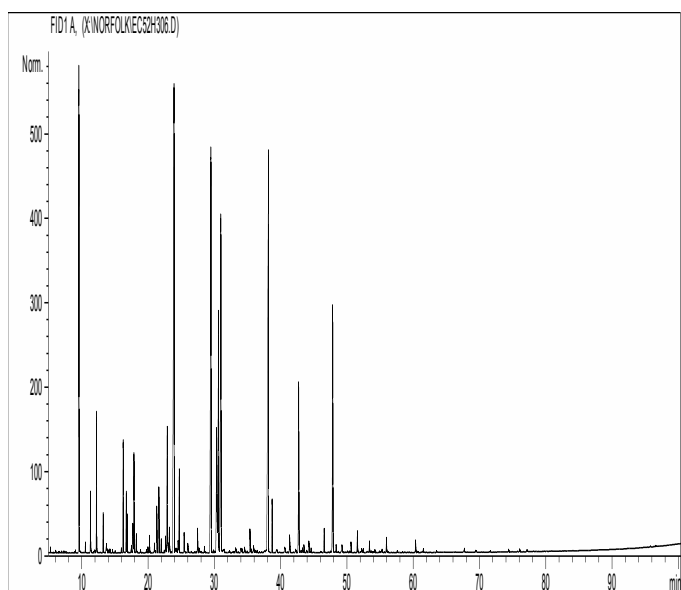
Temperature program: 6 mn to 60 °C –2 °C/mn→250 °C - 20mn to 250 °C

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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### Identification Results:

Peak	RT (min)	Compound name	%	Norm (%)	Allergens (%)
1	4,8	ACETONE	0,01		
2	5,3	1-OCTENE	0,04		
3	6,1	2-BUTANONE	0,02		
4	6,5	BUTANAL 2-METHYL	0,01		
5	6,6	ISOVALERALDEHYDE	0,01		
6	6,8	1-NONENE	0,01		
7	7,0	FURAN 2-ETHYL	0,02		
8	7,3	METHYL BUTENAL	0,02		
9	8,5	METHYL 2-METHYLBUTYRATE	0,01		
10	9,0	ISOBUTYL ACETATE + TRICYCLEN	0,03		
11	9,5	$\alpha$ -PINENE	6,95		
12	10,3	TOLUENE	0,01		
13	10,5	ETHYL METHACRYLATE	0,13		
14	11,3	CAMPHENE	0,92		
15	11,7	ISOBUTYL PROPIONATE	0,02		
16	12,0	HEXANAL	0,06		
17	12,2	ISOBUTYL ISOBUTYRATE	1,96		
18	12,7	2-METHYL-2-PROPEN-1-YLE ACETATE	0,01		
19	13,2	$\beta$ -PINENE	0,63		
20	13,7	ISOAMYL ACETATE + METHYL TIGLATE	0,23		
21	13,8	SABINENE	0,06		
22	14,0	PINADIENE	0,04		
23	14,2	PROPYL, 2-METHYLBUTYRATE	0,06		
24	14,6	BUTYL ISOBUTYRATE	0,05		
25	15,9	ETHYL ANGELATE	0,05		
26	16,1	$\beta$ -MYRCENE	0,04		
27	16,2	ISOBUTYL METHACRYLATE	1,73		
28	16,4	$\alpha$ -PHELLANDRENE	0,02		
29	16,6	ISOBUTYL 2-METHYLBUTYRATE	0,98		
30	16,9	ALLYL ETHYLBUTYRATE	0,57		
31	17,0	$\alpha$ -TERPINENE	0,01		
32	17,5	ISOBUTYL ISOVALERATE	0,17		
33	17,7	AMYL ISOBUTYRATE	0,50		
34	17,9	ISOAMYL ISOBUTYRATE	1,63		
35	18,2	LIMONENE	0,37		0,37
36	18,8	1,8-CINEOLE+ $\beta$ -PHELLANDRENE	0,06		
37	19,0	MENTHATRIENE ISOMER	0,01		
38	19,5	2-HEXENAL	0,01		
39	19,7	ISOBUTYL METHACRYLATE	0,06		
40	20,0	FURAN 2-PENTYL	0,10		
41	20,2	BUTYL METHACRYLATE	0,29		
42	20,9	PRENYL ACETATE	0,16		
43	21,1	$\gamma$ -TERPINENE	0,04		
44	21,3	ISOPROPYL ANGELATE + trans- $\beta$ -OCIMENE	0,79		

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45	21,6	ALLYL METHACRYLATE	1,05		
46	21,8	3-OCTANOL	0,02		
47	22,0	PRENYLIC ESTER	0,24		
48	22,4	3-PENTEN-2-OL	0,04		
49	22,6	p-CYMENE	0,30		
50	22,9	2-METHYLBUTYL METHACRYLATE	2,43		
51	23,0	AMYL VALERATE	0,22		
52	23,2	2-METHYLBUTYL 2-METHYLBUTYRATE	0,66		
53	23,9	ISOBUTYL ANGELATE	13,64		
54	24,1	ISOAMYL ISOVALERATE	0,12		
55	24,3	BUTYL CAPROATE	0,08		
56	24,5	HEXYL 2-METHYLPROPIONATE	0,22		
57	24,7	HEXYL ISOBUTYRATE	1,50		
58	25,4	ISOPRENYL ISOVALERATE	0,38		
59	26,0	1-PENTANOL 3-METHYL	0,16		
60	26,1	ALIPHATIC ESTER	0,02		
61	26,4	2-HEPTENAL	0,03		
62	27,0	6-METHYL-5-HEPTEN-2-ONE	0,02		
63	27,2	HEXYLIC ESTER	0,02		
64	27,5	BUTYL ANGELATE	0,44		
65	27,7	METHACRYLIC ESTER	0,10		
66	27,8	ALIPHATIC ESTER	0,03		
67	28,5	ISOBUTYL TIGLATE	0,13		
68	29,5	METHALLYL ANGELATE	10,29		
69	29,8	3-HEXEN-1-OL	0,06		
70	30,0	ALIPHATIC ESTER	0,04		
71	30,3	METHACRYLLIC ESTER	3,52		
72	30,6	2-METHYLBUTYL ANGELATE	5,98		
73	30,9	ISOAMYL ANGELATE	8,89		
74	31,1	HEPTYL 2-METHYLPROPIONATE	0,31		
75	31,3	2-HEXEN-1-OL	0,06		
76	31,5	ALIPHATIC ESTER	0,06		
77	32,2	ALIPHATIC ACETATE	0,06		
78	32,8	ANGELIC ESTER	0,04		
79	33,0	ALKYL ANGELATE	0,02		
80	33,2	SILPHIPERFOL-7-ENE + TETRACOSANE	0,12		
81	33,6	METHALLYLIC ESTER	0,02		
82	34,0	METHALLYLIC ESTER	0,09		
83	34,2	1-OCTEN-3-OL	0,07		
84	34,5	HEXYL ANGELATE	0,10		
85	34,9	MENTHATRIENE ISOMERE	0,03		
86	35,3	METHALLYL ANGELATE ISOMER	0,43		
87	35,5	PRENYLIC ESTER	0,07		
88	35,9	ALKYL TIGLATE ISOMER	0,19		
89	36,2	METHALLYL ISOBUTYRATE ISOMER	0,04		
90	36,4	SESQUITERPENE	0,04		

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91	37,1	CYCLOSATIVENE	0,03		
92	37,5	$\alpha$ -CAMPHENAL ISOMER	0,08		
93	37,8	ALIPHATIC ESTER	0,07		
94	38,1	METHYLAMYL ANGELATE	13,47		
95	38,2	ALIPHATIC ESTER	0,05		
96	38,6	METHYLPENTYL METHACRYLATE	0,93		
97	39,3	CAMPHOR	0,05		
98	39,4	$\alpha$ -PINOCAMPHONE	0,07		
99	39,8	$\beta$ -BOURBONENE	0,02		
100	40,0	MODEPHENE	0,02		
101	40,5	HEXYL ANGELATE	0,10		
102	40,6	LINALOOL	0,06		0,06
103	40,7	$\beta$ 1-CUBEBENE	0,01		
104	41,0	1-OCTANOL	0,02		
105	41,2	LINALYL ACETATE	0,02		
106	41,3	ISOPINOCAMPHONE	0,35		
107	42,0	ISOBUTYRIC ACID	0,06		
108	42,2	COMPONENT ACID + METHALLYLIC ESTER	0,06		
109	42,7	PINOCARVONE	3,46		
110	43,1	$\epsilon$ -CADINENE + BORNYL ACETATE	0,04		
111	43,3	HEXENYL ESTER	0,09		
112	43,5	ALIPHATIC ESTER	0,15		
113	43,9	$\beta$ -ELEMENE	0,05		
114	44,2	CAMPHENE HYDRATE	0,26		
115	44,4	TERPINENE-4-OL	0,05		
116	44,6	$\beta$ -CARYOPHYLLENE	0,07		
117	46,0	Cis-p-MENTHA-2,8-DIENOL	0,03		
118	46,5	MYRTENAL	0,49		
119	47,2	ALIPHATIC ESTER	0,02		
120	47,5	Cis-VERBENOL	0,03		
121	47,8	Trans-PINOCARVEOL	5,15		
122	48,3	E- $\beta$ -FARNESENE	0,15		
123	46,7	Trans-VERBENOL	0,05		
124	49,2	TERPENIC ALCOHOL + ALIPHATIC ACETATE	0,17		
125	49,3	MYRTENYL ACETATE	0,03		
126	50,0	Z- $\beta$ -FARNESENE	0,04		
127	50,4	$\alpha$ -TERPINEOL	0,03		
128	50,6	BORNEOL	0,23		
129	51,5	GERMACRENE D	0,46		
130	52,0	MENTHADIENOL ISOMER	0,02		
131	52,2	$\beta$ -SELINENE	0,09		
132	52,4	$\alpha$ -MUUROLENE	0,08		
133	53,0	BICYCLOGERMACRENE	0,03		
134	53,4	$\alpha$ -FARNESENE	0,24		
135	53,6	GERANYL ACETATE	0,04		
136	53,8	ALIPHATIC ESTER	0,01		

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137	54,0	FURANIC ESTER	0,02		
138	54,2	δ-CADINENE	0,06		
139	54,9	TIGLIC ACID	0,04		
140	55,1	β-SESQUIPELLANDRENE	0,03		
141	55,2	METHYLENEBUTANOATE 3-HYDROXY-ISOBUTYL	0,04		
142	55,9	MYRTENOL	0,30		
143	56,2	Trans-p-MENTHA-1,8-DIEN-2-OL	0,02		
144	57,5	2,4-DECADIENAL	0,04		
145	58,4	Trans-CARVEOL	0,02		
146	59,2	MYRTENYL ACETATE	0,03		
147	60,3	2-HYDROXY-2-METHYLBUT-3-ENYLE ANGELATE	0,23		
148	60,7	Cis-3-HEXENYL ESTER	0,02		
149	61,2	2-PHENYLETHYL PROPIONATE	0,01		
150	61,5	ISOPENTYL-3-HYDROXY-2-METHYLENEBUTENOATE	0,09		
151	63,5	ALIPHATIC COMPONENT	0,05		
152	67,7	ALIPHATIC ESTER	0,12		
153	69,4	PENTADECANAL	0,05		
154	71,6	ACETOXY KETONE COMPONENT	0,02		
155	74,4	PENTADECANONE TRIMETHYL	0,05		
156	75,7	SESQUITERPENOL	0,02		
157	76,1	EUGENOL	0,06		0,06
158	77,2	CADINOL ISOMER	0,05		
159	82,7	MATRICARIA ESTER Mw=174	0,01		
160	83,0	TRICOSANE	0,01		
161	84,1	CHAMAZULENE	0,01		
162	95,8	XANTHOXYLIN	0,02		
163	96,5	PHYTOL	0,02		
		TOTAL	99,75		0,49

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