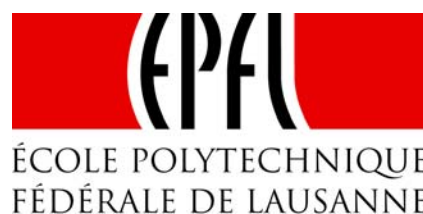


SERVICE DE SPECTROMETRIE DE MASSE DE L'ISIC (SSMI)

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ANALYSES GC-MS

Le 19 Juin 2012

Objet: Analyse d'une huile essentielle par GC-MS
Nom: Davana
Lot: DAV401H116847
Destinataire : Entreprise Gedane (Lausanne, Suisse)
Composés majoritaires: Davanone ; Elixene ; bicycloelemene ; Ethyl Cinnamate

CONDITIONS EXPERIMENTALES

Type d'instrument : GC CP-3800 couplé au 1200L Triple quadrupole MS/MS (Varian)
Mode d'ionisation : Impact électronique (IE), 70 eV (mode positif)
Gamme de masse : m/z 50-250 en 0.5 sec
Colonne : FactorFour VF-5ms (5% phenyl-methyl 95% dimethyl polysiloxane, 0.25mm x 30 m)
Débit : 1 mL/min
Gradient : 50°C pendant 3 min; Montée à 150°C en 20 min; Montée à 250°C en 7 min
Calibrant : FC43
Echantillons : Huile essentielle diluée 1:500 dans l'éther. Injection de 1 μ L.

Table 1 – Composition de l'huile essentielle de Davana (DAV401H116847)

N°	Retention Time (min.)	Area	% of Total	Identification (NIST 08/MassFinder)	Prob (%)
1	10.50	2.69E+09	0.9	p-Cymene	23
2	11.52	7.03E+08	0.2	γ -Terpinene	16
3	11.94	8.34E+08	0.3	Trans Sabinene Hydrate	21
4	12.84	6.05E+09	2.1	Linalool	19
5	12.99	1.96E+09	0.7	2-Methylbutyl Isovalerate	60
6	15.27	2.13E+09	0.7	4-Terpineol	67
7	16.47	1.22E+09	0.4	Lilac Aldehyde (isomer)	30
8	18.07	3.35E+08	0.1	Lilac Alcohol	15
9	18.84	5.50E+08	0.2	Methyl Cinnamate	71
10	19.25	3.72E+10	12.8	Bicycloelemene	14
11	19.93	5.52E+08	0.2	Ethyl Hydrocinnamate	68
12	20.59	4.58E+09	1.6	Geranyl Acetate	32
13	20.65	5.81E+09	2.0	(Z)-Ethyl Cinnamate	82
14	20.90	2.83E+09	1.0	Cis-β-Elemene	15
15	20.95	1.95E+09	0.7	Methyl Cinnamate	30
16	21.41	2.51E+09	0.9	Davanafuran	50
17	21.71	2.03E+09	0.7	Isocaryophyllene	13
18	21.97	5.78E+08	0.2	D-Germacrene / β -Copaene	15/18
19	22.19	1.94E+09	0.7	Aromadendrene	10
20	22.67	1.41E+09	0.5	Nordavanone	10
21	22.74	3.86E+09	1.3	Allo-Aromadendrene	15
22	23.02	1.38E+10	4.7	(E)-Ethyl Cinnamate	65
23	23.24	7.77E+09	2.7	Davana Ether (coelution)	27
24	23.43	1.21E+10	4.2	α-Selinene	9
25	23.57	2.66E+10	9.1	Elixene	76
26	23.66	7.62E+09	2.6	Davana Ether (isomer)	74
27	23.87	1.54E+09	0.5	γ -Cadinene	*
28	23.93	1.49E+09	0.5	Artedouglasia Oxide (C?)	*
29	24.14	1.12E+09	0.4	Artedouglasia Oxide (A?)	*
30	24.46	1.65E+09	0.6	Allo-Davanone	*
31	24.57	5.44E+09	1.9	Iso-Davanone	23
32	24.66	1.46E+09	0.5	(E)-Nerolidol	*
33	24.96	1.10E+11	37.9	Davanone	80
34	25.09	1.07E+09	0.4	Globulol/Ledol	18/20
35	25.71	3.64E+09	1.3	Unknown	
36	25.80	1.82E+09	0.6	τ -Cadinol	34
37	25.98	1.39E+09	0.5	β -Eudesmol	45
38	26.06	1.03E+10	3.6	Unknown (coelution)	

* Identification manuelle

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