

Certificate of Analysis

Analysed essential oil : Amyris

Analysis date : December, 04th 2014

Batch :329QB407

Shelf life : December 2017

❖ General description

Essential oil	Amyris	Origin	Haïti
Latin name	<i>Amyris balsamifera L.</i>		

❖ Organoleptic characteristics

Appearance	Liquid limpid and slightly viscous
Colour	Very pale yellow, almost colourless
Odour	Characteristic

❖ Physico-chemical characteristics

	Results (at 20°C)	Technical specifications				
Specific gravity	0.962	0.946	<	d	<	0.978
Refractive index	1.5052	1.5050	<	IR	<	1.5120
Optical rotation	+28.35°	+10°	<	$[\alpha]^{20}_D$	<	+60°

❖ Volatile elucidation

GC : Perkin Elmer – Clarus 500

Column : Elite - 1, 30 m, Ø 0.25 mm, 0.25 µm df

Injection : split

Detector : FID

Carrier gas : H₂

⇒ See Chromatogram : non-polar column

Date : 2014-12-04

Software Version : 6.2.0.0.0:B27
Sample Name : Amyris
Instrument Name : CLARUS 500
Rack/Vial : 0/11
Sample Amount : 1.000000
Cycle : 11

Date : 04/12/2014 11:00:28
Data Acquisition Time : 03/12/2014 03:56:55
Channel : A
Operator : Davenne
Dilution Factor : 1.000000

Result File :
Sequence File : C:\Sequences\CPG\2014\141202bis.seq

Rapport d'analyse

colonne apolaire

Pic #	Component Name	TR [min]	Area [%]
1		23.48	0.09
2		23.77	0.02
3		24.91	0.03
4		25.16	0.07
5		25.39	0.05
6		25.57	0.05
7		25.91	0.06
8		26.15	0.11
9		26.40	0.01
10		26.58	0.02
11		27.03	0.04
12		27.16	0.02
13		27.31	0.13
14		27.41	0.62
15		27.58	0.17
16		27.77	1.61
17		28.12	0.01
18		28.29	0.16
19		28.38	0.05
20	curcumene <ar>	28.58	3.29
21		28.98	0.77
22		29.08	0.99
23	zingiberene <alpha>	29.23	2.40
24		29.57	0.47
25	bisabolene <beta>	29.77	0.88
26		29.85	0.26
27		29.95	0.02
28	sesquiphellandrene <beta>	30.25	3.86
29		30.54	0.92
30		30.63	0.17
31	elemol	30.90	11.17
32		31.13	0.14
33		31.45	0.05
34	nerolidol <(E)>	31.61	0.69
35		31.83	0.17
36		32.14	0.04
37		32.36	0.04
38		32.48	0.04
39		32.73	0.83
40		32.87	1.04
41		33.10	0.16
42	eudesmol <10-epi-gamma>	33.36	8.24
43		33.55	1.85
44		33.67	0.55
45	eudesmol <gamma>	33.85	6.04
46		34.05	0.57
47		34.17	1.32
48	eudesmol <beta>	34.36	9.39
49	eudesmol <alpha>	34.59	24.43
50	valerianol	34.76	9.31
51		34.94	0.08
52		35.05	0.06
53		35.21	0.58
54		35.49	0.11
55		35.72	0.91
56		35.84	0.10
57		35.94	0.18
58		36.02	0.11

04/12/2014 11:00:28 Result:

Pic #	Component Name	TR [min]	Area [%]
59		36.36	0.63
60		36.79	0.16
61		37.14	0.33
62		37.26	0.28
63		37.38	0.29
64		37.51	0.61
65		37.78	0.09
66	drimenol	37.99	1.51
67		38.15	0.01
68		38.25	0.03
69		38.59	0.03
70		38.79	0.13
71		39.42	0.06
72		39.57	0.04
73		40.35	0.01
74		40.45	0.01
75		40.65	0.02
76		41.10	0.06
77		41.42	0.02
78		41.59	0.02
79		41.93	0.07
80		42.81	0.03
81		44.30	0.02
			100.00

Chromatogram

Sample Name : Amyris Sample #: 329QB407 Page 1 of 1
FileName : C:\Data\Colonne Apolaire\Huiles Essentielles\Amyris\2014\amyris 141202.raw
Date : 04/12/2014 11:00:32 Time of Injection: 03/12/2014 03:56:55
Method : Amyris.mth End Time : 82.00 min Low Point : -47.36 mV High Point : 993.88 mV
Plot Offset: -47.36 mV Plot Scale: 1041.2 mV

