

Certificate of Analysis

Analysed essential oil : Copahu

Analysis date : October, 9th 2015

Batch : 278DB514

Shelf life : November 2019

❖ General description

Essential oil	Copahu	Origin	Brasil
Latin name	<i>Copaifera officinalis</i>		

❖ Organoleptic characteristics

Appearance	Clear and mobile liquid
Colour	Colourless
Odour	Characteristic

❖ Physico-chemical characteristics

	Results (at 20°C)	Technical specifications			
Specific gravity	0.901	0.881	<	d	< 0.921
Refractive index	1.4962	1.4930	<	IR	< 1.5120
Optical rotation	-13.9°	-33°	<	$[\alpha]_{20}^d$	< -7°

❖ 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 : 2015-10-09

Software Version : 6.2.0.0.0:B27
 Sample Name : HE copahu
 Instrument Name : CLARUS 500
 Rack/Vial : 0/7
 Sample Amount : 1.000000
 Cycle : 4

Date : 09/10/2015 10:10:07
 Data Acquisition Time : 07/10/2015 13:35:14
 Channel : A
 Operator : Davenne
 Dilution Factor : 1.000000

Result File :
 Sequence File : C:\Sequences\CPG\2015\151007a.seq

Rapport d'analyse

colonne apolaire

Pic #	Component Name	TR [min]	Area [%]
1		13.60	0.01
2	ocimene <(Z)-beta>	14.04	0.03
3		18.14	0.02
4		27.21	0.05
5	elemene <delta>	27.58	0.62
6	cubebene <alpha>	28.14	0.90
7		28.85	0.05
8		29.04	0.12
9	copaene <alpha>	29.26	4.61
10		29.48	0.07
11	elemene <beta>	29.78	1.31
12		30.01	0.03
13	cyperene	30.18	0.32
14		30.41	0.06
15		30.65	0.08
16	caryophyllene <(E)>	31.09	58.16
17		31.33	0.64
18	elemene <gamma>	31.47	1.46
19	bergamotene <alpha-trans>	31.73	5.07
20	humulene <alpha>	32.28	6.62
21	aromadendrene <allo>	32.54	0.38
22	muurolene <gamma>	33.15	2.22
23	germacrene D	33.30	4.22
24	selinene <beta>	33.49	0.80
25		33.66	0.06
26		33.78	0.30
27	selinene <alpha>	33.91	0.96
28	muurolene <alpha>	34.07	0.56
29		34.30	0.20
30	bisabolene <(Z)-alpha>	34.47	3.20
31	bisabolene <beta>	34.65	0.22
32	cadinene <gamma> + cadinene <d	34.93	3.56
33		35.24	0.14
34		35.41	0.32
35		35.67	0.30
36		36.13	0.12
37	germacrene B	36.40	0.22
38	caryophyllene oxide	36.79	0.22
39		37.25	0.03
40		37.52	0.02
41		37.70	0.07
42		38.12	0.07
43	junenol	38.25	0.34
44		38.60	0.08
45		38.85	0.05
46		39.01	0.18
47		39.14	0.25
48		39.42	0.23
49		39.58	0.06
50		40.14	0.06
51		40.57	0.02
52		40.83	0.07
53		45.55	0.07
54		49.30	0.04
55		50.13	0.05
56		52.74	0.03
57		53.12	0.05

100.00

Chromatogram

Sample Name : HE copahu Sample #: 278DB514 Page 1 of 1
FileName : C:\Data\Colonne Apolaire\Huiles Essentielles\Copahu\2015\copahu 151007.raw
Date : 09/10/2015 10:10:09 Time of Injection: 07/10/2015 13:35:14
Method : copahu.mth End Time : 82.00 min Low Point : -47.23 mV High Point : 993.88 mV
Plot Offset: -47.23 mV Plot Scale: 1041.1 mV

