

Certificate of Analysis

Analysed essential oil : **Snow bush**

Analysis date : December, 21th 2016

Batch : 355RB602

Shelf life : January 2020

❖ General description

Essential oil	Snow bush	Origin	South Africa
Latin name	<i>Eriocephalus punctulatus</i> syn <i>Eriocephalus tenuifolius</i>		

❖ Organoleptic characteristics

Appearance	Clear and mobile liquid
Colour	Yellow Green
Odour	Characteristic

❖ Physico-chemical characteristics

	Results (at 20°C)	Technical specifications				
Specific gravity	0.905	0.870	<	d	<	0.900
Refractive index	1.4385	1.4280	<	IR	<	1.4430
Optical rotation	-1,05°	-	<	$[\alpha]^{20}_d$	<	-

❖ Volatile elucidation

GC : Perkin Elmer – Clarus 500

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

Injection : split

Detector : FID

Carrier gas : H₂

⇒ See Chromatogram : polar column

Date : 2016-12-21

Software Version : 6.3.2.0646
Sample Name : Eriocephale 355RB602
Instrument Name : CLARUS 500
Rack/Vial : 0/7
Sample Amount : 1.000000
Cycle : 7

Date : 12/21/2016 11:50:30 AM
Data Acquisition Time : 12/21/2016 2:27:47 AM
Channel : B
Operator : Charlene
Dilution Factor : 1.000000

Result File :
Sequence File : C:\Sequences\CPG\2016\161220.seq

Rapport d'analyse

colonne polaire Elite WAX

pic #	Nom composant	TR [min]	Aire [%]
1		2.99	0.12
2	pinene <alpha>	3.11	1.53
3		3.59	0.06
4	camphene	3.75	0.62
5		3.99	0.06
6		4.06	0.07
7	isobutyl isobutyrate	4.30	10.45
8	pinene <beta>	4.50	0.21
9	methyl butyl acetate<2>+sabine	4.86	0.57
10		5.50	0.06
11		5.96	0.19
12	isobutyl 2-methyl butanoate	6.24	1.61
13		6.53	0.31
14	isoamyl isobutyrate+isobutyl i	6.84	28.03
15	cineole <1.8>	6.97	0.89
16		7.10	0.69
17		7.49	0.14
18		8.04	0.64
19	cymene <p>	8.81	2.41
20		9.09	0.25
21	isoamyl 2-methyl butanoate+amy	9.37	5.78
22	isobutyl angelate	9.58	1.67
23	amyl valerate	9.90	1.14
24		11.26	1.61
25		11.71	0.85
26		11.94	0.07
27		12.27	0.31
28		12.64	0.07
29		13.12	0.29
30	isoamyl angelate	13.26	3.08
31		14.14	0.07
32		14.27	3.92
33		14.85	0.09
34		15.22	0.05
35		15.53	0.19
36		15.77	2.11
37		15.93	0.66
38		16.20	0.08
39		16.45	0.97
40	copaene <alpha>	16.54	1.35
41	camphor	16.89	2.05
42		17.30	0.10
43		17.91	0.10
44		18.07	0.16
45		18.69	0.30
46	linalool	19.05	0.90
47		19.21	0.16
48	linalool acetate	19.33	4.47
49		19.72	0.34
50		20.17	0.63
51	terpinen-4-ol	20.55	2.22
52		20.69	0.06
53		20.99	0.06
54		21.58	0.20
55		21.85	0.14
56		22.06	0.08
57		22.33	0.24

12/21/2016 11:50:30 AM Result:

pic #	Nom composant	TR [min]	Aire [%]
58		22.74	0.11
59		23.10	0.08
60		23.27	0.13
61		23.58	0.09
62	borneol	24.02	1.78
63		24.38	0.08
64		24.60	0.03
65		24.86	0.04
66	neryl acetate	25.30	0.35
67		25.73	0.06
68		26.03	0.18
69	geranyl acetate	26.38	0.37
70		27.24	0.11
71		27.46	0.10
72		27.59	0.16
73		27.77	0.03
74		28.25	0.14
75		29.16	0.15
76		29.42	0.14
77		29.86	0.10
78		30.12	0.12
79		30.46	0.16
80		30.91	0.57
81		32.15	0.14
82		32.30	0.11
83		32.74	0.52
84		32.90	0.06
85		33.18	0.38
86	artedouglasia oxide C	33.39	1.11
87		33.87	0.35
88		34.15	0.14
89	artedouglasia oxide A	34.31	1.49
90		34.49	0.11
91		34.67	0.29
92		35.27	0.18
93		35.56	0.13
94		35.74	0.17
95		36.03	0.11
96		36.24	0.53
97		36.69	0.13
98		37.18	0.11
99		37.50	0.77
100		37.66	0.41
101		38.06	0.07
102		38.21	0.29
103		38.34	0.31
104		38.55	0.10
105		39.08	0.20
106		40.57	0.18
107		41.11	0.07
108		42.24	0.11
109		42.41	0.35
110		42.85	0.06
111		44.03	0.06
112		44.65	0.13
113		48.99	0.14
114		49.40	0.15
			100.00

Chromatogram

Sample Name : Eriocéphale 355RB602 Sample # : 355RB602 Page 1 of 1
FileName : C:\Data\Colonne Polaire\Huiles Essentielles\Eriocéphale\2016\eriocéphale 161220.raw
Date : 12/21/2016 11:50:34 AM
Method : eriocéphale.mth Time of Injection: 12/21/2016 2:27:47 AM
Start Time : 0.00 min End Time : 82.00 min Low Point : -47.11 mV High Point : 993.88 mV
Plot Offset: -47.11 mV Plot Scale: 1041.0 mV

