

Laboratoire Rosier Davenne

CERTIFICATE OF ANALYSIS

Model/Product/Revision/Date of revision : BAHEEN001 / Frankincense EO / 0 / 08-02-19

Modification(s) : none

Published : 17/10/2019

p1/1

Frankincense EO

Laboratoire Rosier Davenne code : **01E/BOSCAR**

Date of analysis : 17/07/2019

Batch number : **155VA903**

Retest date (shelf life): **07/2022**

❖ General description

Essential oil	Frankincense EO	Origin	Somalia
Latin name	<i>Boswellia carterii</i>		

❖ Sensory quality

Aspect	Clear and mobile liquid	Conform
Color	clear yellow	Conform
Odor	Characteristic	Conform

❖ Analytical quality

	Laboratoire Rosier Davenne specifications	Results	Conclusion
Density (20°C)	0,860 - 0,892	0.866	Conform
Refractive index (20°C)	1,4690 - 1,4820	1.4739	Conform
Optical rotation (20°C)	-20° à 0°	-6.00	Conform
Peroxide index	< 20 mmoles/L	Not applicable	Not Applicable

❖ Chromatography analyse

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 chromatography attached (polar column)

❖ Conclusion

Batch accepted.

Software Version : 6.3.2.0646
Sample Name : HE Encens Carterii 155VA903
Instrument Name : CLARUS 500
Rack/Vial : 0/2
Sample Amount : 1.000000
Cycle : 2

Date : 7/18/2019 10:20:41 AM
Data Acquisition Time : 7/17/2019 6:41:47 PM
Channel : B
Operator : Christophe
Dilution Factor : 1.000000

Result File :
Sequence File : C:\Sequences\CPG\2019\190717.seq

Rapport d'analyse

colonne apolaire

Pic #	Component Name	TR [min]	Area [%]
1		2.64	0.01
2		2.79	0.05
3	pinene<alpha>	3.01	40.27
4	thujene<alpha>	3.05	2.38
5		3.13	0.07
6		3.44	0.01
7	camphene	3.56	0.77
8	pinene <beta>	4.26	1.28
9	sabinene	4.55	4.22
10	thuja-2,4(10)-diene	4.60	0.24
11		4.74	0.09
12		4.85	0.02
13	carene <delta-3>	5.13	1.60
14		5.33	0.03
15	phellandrene <alpha>	5.52	2.19
16	myrcene	5.60	5.22
17		5.74	0.11
18	terpinene <alpha>	5.87	0.09
19		6.12	0.02
20		6.26	0.04
21	limonene	6.42	18.13
22	cineole <1.8> + phellandrene <	6.58	0.94
23		6.81	0.07
24	ocimene<Z-beta>	7.53	0.40
25	terpinene<gamma>	7.70	0.20
26	ocimene<E-beta>	8.01	0.14
27	cymene<p>	8.41	3.17
28	terpinolene	8.83	0.08
29		8.92	0.02
30		9.52	0.04
31		11.11	0.02
32		11.66	0.12
33		13.04	0.05
34		13.26	0.04
35		13.55	0.06
36	thujone <cis>	13.70	0.13
37		13.98	0.05
38	thujone <trans>	14.03	0.06
39		14.25	0.05
40		14.70	0.08
41		14.91	0.02
42		15.13	0.12
43		15.29	0.03
44		15.62	0.03
45		15.83	0.27
46		15.96	0.10
47	copaene <alpha>	16.22	0.65
48		16.49	0.02
49	bourbonene <beta>	17.12	0.19
50		17.56	0.13
51		17.97	0.12
52		18.26	0.07
53		18.36	0.08
54	linalool	18.63	0.12
55		18.77	0.02
56		19.22	0.04
57	bornyl acetate	19.31	0.31

7/18/2019 10:20:41 AM Result:

Pic #	Component Name	TR [min]	Area [%]
58		19.48	0.02
59		19.68	0.03
60	caryophyllene<E>+elemene<beta>	19.85	3.70
61	terpinen-4-ol	20.11	0.32
62		20.49	0.16
63		20.60	0.02
64		20.93	0.05
65		21.14	0.11
66	aromadendrene <allo>	21.51	0.22
67	pinocarveol <trans>	21.86	0.48
68		22.08	0.22
69		22.23	0.04
70	humulene<alpha>	22.33	0.73
71		22.65	0.05
72	necrodel <trans-alpha>	22.81	0.99
73		23.03	0.31
74	muurolene <gamma>	23.24	0.29
75		23.43	0.05
76	terpineol<alpha>+borneol	23.57	0.34
77	germacrene D	23.76	0.38
78		23.87	0.10
79	selinene<beta>	24.03	0.42
80		24.15	0.02
81	selinene<alpha>	24.26	0.57
82		24.53	0.15
83		24.62	0.38
84		25.18	0.02
85		25.36	0.05
86		25.50	0.10
87	cadinene <gamma>	25.59	0.47
88	cadinene<delta>	25.69	0.63
89		25.85	0.06
90		26.36	0.05
91		26.74	0.23
92		27.00	0.02
93		27.22	0.12
94		27.62	0.01
95		27.92	0.02
96		28.04	0.04
97		28.29	0.23
98		28.39	0.06
99		28.71	0.07
100		29.29	0.07
101		30.02	0.16
102		31.59	0.08
103		31.68	0.39
104		32.14	0.04
105	caryophyllene oxide	32.38	0.55
106		32.90	0.02
107		34.12	0.10
108		35.19	0.04
109		35.34	0.03
110		35.94	0.30
111		36.11	0.02
112		36.93	0.05
113		37.15	0.04
114	cadinol <epi-alpha>	38.67	0.37
115		40.03	0.03
116		40.85	0.07
117		43.17	0.03
118		44.31	0.03
119	incensole	52.68	0.22
120		53.47	0.04
121		54.10	0.03
122		55.67	0.08
			100.00

Chromatogram

Sample Name : HE Encens Carterii 155VA903 Sample #: 2 Page 1 of 1
FileName : C:\Data\Colonne Polaire\2019\190717_HE Encens Carterii 155VA903_002.raw
Date : 7/18/2019 10:20:43 AM
Method : encens carterii.mth Time of Injection: 7/17/2019 6:41:47 PM
Start Time : 0.00 min End Time : 82.00 min Low Point : -47.15 mV High Point : 993.88 mV
Plot Offset: -47.15 mV Plot Scale: 1041.0 mV

