

Laboratoire Rosier Davenne

CERTIFICATE OF ANALYSIS

Model/Product/Revision/Date of revision : BAHEEN001 / Egyptian geranium EO / 0 / 08-02-19
Modification(s) : none
Published : 04/02/2021

p1/1

Egyptian geranium EO

Laboratoire Rosier Davenne code : **01G/PELGRA**

Date of analysis : 05/10/2020

Batch number : **197FA003**

Retest date (shelf life): **02/2023**

❖ General description

Essential oil	Egyptian geranium EO	Origin	Egypt
Latin name	<i>Pelargonium x asperum</i>		

❖ Sensory quality

Aspect	Clear and mobile liquid	Conform
Color	Clear yellow	Conform
Odor	Characteristic rose and green	Conform

❖ Analytical quality

	Laboratoire Rosier Davenne specifications	Results	Conclusion
Density (20°C)	0,885 - 0,905	0.894	Conform
Refractive index (20°C)	1,4610 - 1,4750	1.4670	Conform
Optical rotation (20°C)	-14° à -8°	-12.10	Conform
Peroxide index	Not applicable	Not applicable	Not Applicable

❖ Chromatography analyse

GC : Perkin Elmer - Clarus

Column : see report

Injection : split

Detector : FID

Carrier gas : H2

-> See chromatography attached

❖ Conclusion

Batch accepted.

Software Version : 6.3.4.0700
Sample Name : HE Geranium Egypte 197FA003
Instrument Name : Clarus 590
Rack/Vial : 0/3
Sample Amount : 1.000000
Cycle : 4

Date : 10/6/2020 8:52:50 AM
Data Acquisition Time : 10/5/2020 9:14:24 PM
Channel : B
Operator : Sarah
Dilution Factor : 1.000000

Result File :
Sequence File : C:\Clarus 590\Sequences\2020\201005.seq

Rapport d'analyse - Laboratoire Rosier Davenne

Colonne polaire : Elite-Wax 60m, Ø 0,25mm, 0.25µm df

Pic #	Component Name	Tr [min]	Area [%]
1	pinene <alpha>	6.00	0.51
2		7.99	0.05
3		9.14	0.02
4	myrcene	9.47	0.11
5	phellandrene <alpha>	9.51	0.08
6	limonene	10.56	0.16
7	cineole<1,8>+phellandrene<beta>	10.86	0.08
8		10.96	0.03
9	ocimene <(Z)-beta>	11.79	0.08
10		12.05	0.02
11	ocimene <(E)-beta>	12.38	0.11
12	cymene <p>	13.00	0.06
13	terpinolene	13.48	0.03
14		15.04	0.04
15		15.42	0.04
16	rose oxide <cis>	16.08	1.12
17	rose oxide <trans>	16.64	0.46
18	linalool oxide <cis>	19.47	0.20
19	menthone+cubebene<alpha>	20.19	0.65
20	linalool oxide <trans>	20.57	0.12
21		20.70	0.04
22	citronellal	20.92	0.19
23		21.17	0.02
24	menthone <iso>	21.30	6.39
25	copaene <alpha>	21.49	0.50
26		21.91	0.03
27		22.26	0.09
28	bourbonene <beta>	22.51	1.13
29		22.95	0.07
30		23.26	0.06
31	linalool	23.63	4.28
32	linalyl acetate	24.10	0.04
33		24.36	0.08
34		24.59	0.13
35		25.05	0.08
36	guaiene <alpha>	25.22	0.20
37	caryophyllene <beta>	25.43	1.24
38	terpinen-4-ol	25.79	0.06
39	guaiadene <6,9>	25.85	0.33
40		26.14	0.03
41	citronellyl formate	26.42	7.63
42		26.61	0.16
43		26.75	0.16
44		27.11	0.11
45		27.22	0.18
46		27.50	0.17
47		27.81	0.24
48	citronellyl acetate	27.94	0.24
49	humulene <alpha>	28.08	0.31

10/6/2020 8:52:50 AM Result:

Pic #	Component Name	Tr [min]	Area [%]
50	farnesene <(E)-beta>	28.20	0.08
51		28.32	0.07
52		28.39	0.43
53		28.44	0.25
54		28.87	0.25
55	terpineol <alpha>	29.06	0.51
56	geranyl formiate+germacrene D	29.51	4.94
57		29.69	0.13
58		29.87	0.27
59		29.93	0.11
60		30.14	0.25
61	geranial	30.23	0.52
62		30.29	0.35
63	bicyclogermacrene	30.38	0.68
64		31.16	0.11
65	geranyl ACT+cadinene<gamma+del	31.35	1.82
66	citronellol	31.80	33.93
67		32.01	0.20
68		32.16	0.11
69	nerol	32.84	0.38
70	citronellyl propanoate	32.95	0.45
71		33.36	0.08
72	geranyl propanoate	33.60	0.70
73		33.90	0.19
74	geraniol	34.52	14.41
75		35.44	0.04
76		35.75	0.30
77	geranyl butanoate.	36.15	0.99
78		36.28	0.12
79		36.67	0.07
80		37.87	0.08
81	caryophyllene oxide	38.69	0.11
82		39.34	0.18
83	citronellyl tiglate <(E)>	39.88	0.26
84		40.96	0.16
85		41.23	0.23
86	cubenol <1-epi>	41.43	0.11
87		41.73	0.05
88		42.03	0.03
89		42.44	0.06
90	eudesmol <10-epi-gamma>	42.64	4.38
91	geranyl tiglate	43.10	1.11
92		43.21	0.18
93		44.62	0.04
94		44.82	0.16
95		45.18	0.04
96	phenyl ethyl tiglate <2>	45.31	0.77
97		45.46	0.11
98		45.55	0.15
99		45.95	0.19
100		46.11	0.04
101		46.36	0.44
102		46.48	0.18
103		50.69	0.04
			100.00

Chromatogram

Sample Name : HE Geranium Egypte 197FA003

Sample # : 4

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FileName : C:\Clarus 590\Data\Colonne Polaire\2020\201005_HE Geranium Egypte 197FA003_004.raw

Date : 10/6/2020 8:53:13 AM

Method : Geranium Egypte.mth

Time of Injection: 10/5/2020 9:14:24 PM

Start Time : 0.00 min End Time : 80.00 min

Low Point : -45.09 mV

High Point : 954.91 mV

Plot Offset: -45.09 mV

Plot Scale: 1000.0 mV

