

CERTIFICATE OF ANALYSIS

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

Modification(s) : none

Published : 24/05/2022

p1/1

Petitgrain lemon EO

Date of analysis : 28/04/2022

Batch number : **104BV202**

Retest date (shelf life): **12/2025**

❖ General description

Essential oil	Petitgrain lemon EO	Origin	Italy
Latin name	<i>Citrus limon</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)	0,865 - 0,887	0.869	Conform
Refractive index (20°C)	1,4720 - 1,4790	1.4760	Conform
Optical rotation (20°C)	+14° à +35°	30.27	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 Petit grain citronnier 104BV202
 Instrument Name : Clarus 590
 Rack/Vial : 0/17
 Sample Amount : 1.000000
 Cycle : 3

Date : 4/29/2022 8:19:18 AM
 Data Acquisition Time : 4/28/2022 2:42:20 PM
 Channel : A
 Operator : Sarah
 Dilution Factor : 1.000000

Result File :
 Sequence File : C:\Clarus 590\Sequences\2022\220428.seq

Rapport d'analyse

Colonne apolaire : Elite-1 60m, Ø 0,25mm, 0.25µm df

Pic #	Component Name	Tr [min]	Area [%]
1		3.81	0.01
2		8.49	0.02
3		8.60	0.05
4	thujene <alpha>	11.21	0.11
5	pinene <alpha>	11.51	1.37
6	camphene	12.03	0.07
7	6-methyl-5-hepten-2-one	12.85	0.97
8	sabinene	12.97	3.34
9	pinene <beta>	13.19	15.45
10		13.58	0.03
11	myrcene	13.65	1.06
12	phellandrene <alpha>	14.26	0.06
13	carene <delta-3>	14.62	1.11
14	terpinene <alpha>	14.81	0.10
15	cymene <para>	14.94	0.29
16	cineole <1,8>	15.31	0.86
17	phellandrene<beta>+limonene	15.47	39.46
18	ocimene <(Z)-beta>	15.62	0.28
19	ocimene <(E)-beta>	16.12	1.32
20	terpinene <gamma>	16.63	1.21
21		17.90	0.03
22	terpinolene	17.98	0.29
23		18.15	0.04
24	linalool	18.22	1.42
25		19.68	0.04
26		19.98	0.05
27	citronellal	20.39	0.37
28		20.86	0.06
29		21.65	0.13
30	terpinen-4-ol	21.76	0.25
31	terpineol <alpha>	22.25	0.40
32		22.83	0.04
33	nerol+citronellol	24.03	2.18
34	neral+?	24.27	6.83
35		24.93	0.09
36	geraniol	25.14	1.43
37	geranial	25.56	9.68
38	citronellyl acetate	29.37	0.09
39		29.48	0.03
40	neryl acetate	29.88	4.04
41	geranyl acetate	30.62	1.41
42	cyclocitral <alpha>	32.41	0.44
43	caryophyllene <beta>	32.92	1.74
44	cyclocitral <beta>	33.27	1.08
45		33.56	0.10
46	humulene <alpha>	34.24	0.11
47	cadinene <delta>	35.91	0.09
48		36.17	0.05

4/29/2022 8:19:18 AM Result:

Pic #	Component Name	Tr [min]	Area [%]
49		36.33	0.15
50		36.86	0.04
51	caryophyllene oxide	38.94	0.07
52		39.68	0.06
			100.00
