

Laboratoire Rosier Davenne

Certificate of Analysis

Modèle/Révision/Date de révision : BAHEFR001 / 0 / 01.03.19

Modification(s) : aucune

Editée le : 01/03/19

p1/1

Analysed Essential oil : Lime expressed

Analysis date : February, 12th 2019

Batch : 045DB901

Shelf life : August 2020

❖ General description

Essential oil	Lime expressed	Origin	Brazil
Latin name	<i>Citrus aurantifolia</i> (Christmann) Swingle		

❖ Organoleptic characteristics

Appearance	Clear and mobile liquid
Colour	Dark green yellow
Odour	Characteristic

❖ Physico-chemical characteristics

	Results (at 20°C)	Technical specifications				
Specific gravity	0,864	0.861	<	d	<	0.879
Refractive index	1,4760	1.4760	<	IR	<	1.4860
Optical rotation	ND	+38°	<	$[\alpha]^{20}_d$	<	+53°
Peroxyd index	3,3	0 mmol/L	<	IP	<	20 mmol/L

❖ Volatile elucidation

GC : Perkin Elmer – Clarus 500

Column : Elite – WAX, 30m, Ø 0.25 mm, 0.25 µm df

Injection : split

Detector : FID

Carrier gas : H₂

⇒ See Chromatogram : polar column

Date : 1 Mar. 19

Software Version : 6.3.2.0646
Sample Name : HE lime exprimee 045DB901
Instrument Name : CLARUS 500
Rack/Vial : 0/1
Sample Amount : 1.000000
Cycle : 1

Date : 2/18/2019 12:14:02 PM
Data Acquisition Time : 2/14/2019 4:35:51 PM
Channel : B
Operator : Ismerie
Dilution Factor : 1.000000

Result File :
Sequence File : C:\Sequences\CPG\2019\190214.seq

Rapport d'analyse

colonne polaire Elite WAX

pic #	Nom composant	TR [min]	Aire [%]
1	pinene <alpha>	3.03	2.72
2	thujene <alpha>	3.10	0.51
3	camphene	3.64	0.06
4	pinene <beta>	4.39	12.03
5	sabinene	4.66	1.70
6	phellandrene<alpha>	5.64	0.03
7	myrcene	5.72	1.57
8	terpinene <alpha>	6.01	0.24
9	limonene	6.63	55.44
10	phellandrene <beta>	6.75	0.30
11		7.70	0.04
12	terpinene <gamma>	7.93	14.36
13	ocimene <(E)-beta>	8.18	0.09
14		8.46	0.04
15	cymene <p>	8.57	0.61
16	terpinolene	9.01	0.71
17		9.62	0.02
18		15.47	0.10
19		18.45	0.09
20	linalool	18.82	0.05
21		19.38	0.05
22	caryo<E>+elenene<beta>+berg<al	19.99	1.12
23	terpinen-4-ol	20.31	0.06
24	humulene<alpha>	21.69	0.05
25	cyclocitral<alpha>	22.66	0.75
26	neral	22.99	1.12
27		23.21	0.04
28		23.38	0.04
29	terpiny-4-ol acetate	23.56	1.32
30	terpineol <alpha>	23.78	0.27
31		24.11	0.03
32		24.33	0.03
33	geranial	24.83	1.72
34	bisabolene<beta>	25.05	0.69
35	neryl acetate	25.13	1.36
36		25.87	0.02
37		26.06	0.05
38	geranyl acetate	26.20	0.32
39	nerol	27.55	0.06
40	geraniol	29.22	0.06
41		57.22	0.07
42		65.60	0.07
			100.00

Chromatogram

Sample Name : HE lime exprimee 045DB901 Sample #: 1 Page 1 of 1
FileName : C:\Data\Colonne Polaire\2019\190214 lime exprimee.raw
Date : 2/18/2019 12:14:03 PM
Method : lime exprimee.mth Time of Injection: 2/14/2019 4:35:51 PM
Start Time : 0.00 min End Time : 82.00 min Low Point : -47.12 mV High Point : 993.88 mV
Plot Offset: -47.12 mV Plot Scale: 1041.0 mV

