

Certificate of Analysis

Analysed essential oil : **Expressed Lime**

Analysis date : March, 01st 2016

Batch : 057DB602

Shelf life : September 2017

❖ General description

Essential oil	Expressed lime	Origin	Argentina
Latin name	<i>Citrus aurantifolia</i> (Christmann) Swingle		

❖ Organoleptic characteristics

Appearance	Clear and mobile liquid
Colour	Yellow
Odour	Characteristic

❖ Physico-chemical characteristics

	Results (at 20°C)	Technical specifications				
Specific gravity	0.866	0.861	<	d	<	0.879
Refractive index	1.4765	1.4760	<	IR	<	1.4860
Optical rotation	+48.00°	+38°	<	$[\alpha]^{20}_d$	<	+53°
Peroxide index	0,8 mmol/L	0 mmol/L	<	IP	<	20 mmol/L

❖ Volatile elucidation

GC : Perkin Elmer – Clarus 500

Column : Elite - 1, 30 m, Ø 0.25 mm, 0.25 µm df

Injection : split

Detector : FID

Carrier gas : H₂

⇒ See Chromatogram : non-polar column

Date : 2016-03-01

Software Version : 6.2.0.0.0:B27
Sample Name : Lime exprimee 057DB602
Instrument Name : CLARUS 500
Rack/Vial : 0/1
Sample Amount : 1.000000
Cycle : 1

Date : 01/03/2016 12:33:08
Data Acquisition Time : 29/02/2016 15:49:18
Channel : A
Operator : Davenne
Dilution Factor : 1.000000

Result File :
Sequence File : C:\Sequences\CPG\2016\160229b.seq

Rapport d'analyse

colonne apolaire

Pic #	Component Name	TR [min]	Area [%]
1	thujene <alpha>	9.51	0.44
2	pinene <alpha>	9.77	2.05
3	camphene	10.25	0.07
4	sabinene	11.19	1.65
5	pinene <beta>	11.34	14.80
6	myrcene	11.95	1.26
7	terpinene <alpha>	13.01	0.18
8	cymene <p>	13.14	0.36
9	limonene+phellandrene<beta>	13.60	55.56
10	ocimene <(E)-beta>	14.36	0.16
11	terpinene <gamma>	14.82	13.97
12	terpinolene	16.12	0.47
13	linalool	16.42	0.17
14		18.56	0.06
15	terpinen-4-ol	19.80	0.24
16	terpineol <alpha>	20.29	0.33
17		22.11	0.04
18	neral	22.26	1.63
19	geranial	23.53	2.67
20		27.36	0.06
21	neryl acetate	27.89	0.52
22	geranyl acetate	28.64	0.29
23		29.54	0.06
24		30.54	0.04
25	caryophyllene <(E)>	30.65	0.56
26	bergamotene <alpha-trans>	31.41	0.60
27		31.96	0.04
28		32.12	0.06
29	germacrene D	33.00	0.06
30		33.91	0.10
31		34.07	0.13
32	bisabolene <beta>	34.17	0.88
33		35.87	0.10
34		40.37	0.05
35		44.96	0.05
36		48.75	0.20
37		51.09	0.09
			100.00

Chromatogram

Sample Name : Lime exprimée 057DB602 Sample #: 057DB602 Page 1 of 1
FileName : C:\Data\Colonne Apolaire\Huiles Essentielles\Lime\2016\lime exprimée 160229.raw
Date : 01/03/2016 12:33:09
Method : lime exprimée.mth Time of Injection: 29/02/2016 15:49:18
Start Time : 0.00 min End Time : 82.00 min Low Point : -47.23 mV High Point : 993.88 mV
Plot Offset: -47.23 mV Plot Scale: 1041.1 mV

