

# Certificate of Analysis

Analysed essential oil : **Clary sage**

Analysis date : October, 25<sup>th</sup> 2016

Batch : 253JA604

Shelf life : October 2019

## ❖ General description

Essential oil	Clary sage	Origin	Russia
Latin name	<i>Salvia sclarea</i> L.		

## ❖ Organoleptic characteristics

Appearance	Clear and mobile liquid
Colour	Almost colourless
Odour	Characteristic

## ❖ Physico-chemical characteristics

	Results (at 20°C)	Technical specifications				
Specific gravity	0.892	0.886	<	d	<	0.929
Refractive index	1.4555	1.4500	<	IR	<	1.4700
Optical rotation	-11,90°	-29°	<	$[\alpha]^{20}_D$	<	-10°

## ❖ Volatile elucidation

GC : Perkin Elmer – Clarus 500

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

Injection : split

Detector : FID

Carrier gas : H<sub>2</sub>

⇒ See Chromatogram : polar column

Date : 2016-10-25

Software Version : 6.3.2.0646  
Sample Name : Saugé sclaree 253JA604  
Instrument Name : CLARUS 500  
Rack/Vial : 0/30  
Sample Amount : 1.000000  
Cycle : 31

Date : 10/26/2016 11:16:40 AM  
Data Acquisition Time : 10/22/2016 12:10:22 PM  
Channel : B  
Operator : Charlene  
Dilution Factor : 1.000000

Result File :  
Sequence File : C:\Sequences\CPG\2016\161020.seq

## Rapport d'analyse

colonne polaire Elite WAX

pic #	Nom composant	TR [min]	Aire [%]
1	pinene <alpha>	3.11	0.28
2	pinene <beta>	4.50	0.24
3	myrcene+phellandrene <alpha>	5.91	0.76
4	limonene	6.69	0.61
5		7.13	0.04
6	ocimene <(Z)-beta>	7.91	0.50
7	ocimene <(E)-beta>	8.40	0.60
8	terpinolene	9.24	0.03
9		9.48	0.03
10		12.84	0.15
11		13.13	0.03
12		13.39	0.06
13		13.70	0.08
14	linalool oxide <cis>	14.81	0.04
15		15.46	0.06
16	linalool oxide <trans>	15.84	0.05
17	copaene <alpha>	16.53	0.07
18		16.89	0.11
19		17.34	0.04
20		17.90	0.04
21		18.69	0.09
22	linalool	19.13	22.19
23	linalool acetate	19.50	60.83
24		19.79	0.28
25	caryophyllene<E>+elemene<beta>	20.27	2.41
26		20.57	0.04
27		20.91	0.17
28	humulene <alpha>	22.67	0.03
29		22.93	0.06
30		23.23	0.06
31		23.67	0.02
32		23.92	0.07
33	terpineol<alpha>	24.03	3.33
34	germacrene D	24.10	0.72
35		24.21	0.06
36	geranial	25.05	0.07
37	neryl acetate	25.32	1.07
38	cadinene <delta>	26.03	0.05
39	geranyl acetate	26.41	2.29
40		26.55	0.05
41	nerol	27.79	0.44
42	geraniol	29.44	1.01
43		33.19	0.04
44		34.23	0.03
45		36.74	0.06
46		40.15	0.08
47		40.51	0.08
48		40.88	0.05
49		45.56	0.13
50	sclareol	62.39	0.40

100.00



# Chromatogram

Sample Name : Saugue sclarée 253JA604      Sample #: 253JA604      Page 1 of 1  
 FileName : C:\Data\Colonne Polaire\Huiles Essentielles\Saugue\Saugue Sclarée\2016\saugue sclarée 161020.raw  
 Date : 10/26/2016 11:16:41 AM  
 Method : saugue sclarée.mth      Time of Injection: 10/22/2016 12:10:22 PM  
 Start Time : 0.00 min      End Time : 82.00 min      Low Point : -47.14 mV      High Point : 993.88 mV  
 Plot Offset: -47.14 mV      Plot Scale: 1041.0 mV

