

# Certificate of Analysis

Analysed essential oil : **Clary sage (organic)**

Analysis date : December, 12<sup>th</sup> 2017

Batch : 306JA701

Shelf life : 11/2022

## ❖ General description

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

## ❖ Organoleptic characteristics

Appearance	Clear and mobile liquid
Colour	Colourless
Odour	Characteristic

## ❖ Physico-chemical characteristics

	Results (at 20°C)	Technical specifications				
Specific gravity	0,894	0.886	<	d	<	0.929
Refractive index	1,4561	1.4500	<	IR	<	1.4700
Optical rotation	-12,30°	-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 : 09-18-2018

Software Version : 6.3.2.0646  
Sample Name : HE Saugé Sclaree 306JA701  
Instrument Name : CLARUS 500  
Rack/Vial : 0/3  
Sample Amount : 1.000000  
Cycle : 3

Date : 12/12/2017 9:46:21 AM  
Data Acquisition Time : 12/11/2017 8:11:50 PM  
Channel : B  
Operator : Charlene  
Dilution Factor : 1.000000

Result File :  
Sequence File : C:\Sequences\CPG\2017\171211.seq

## Rapport d'analyse

colonne polaire Elite WAX

pic #	Nom composant	TR [min]	Aire [%]
1		2.49	0.00
2	pinene <alpha>	3.03	0.39
3	camphene	3.65	0.02
4	pinene <beta>	4.38	0.31
5	sabinene	4.67	0.02
6	myrcene	5.75	0.74
7	limonene	6.53	0.67
8		6.73	0.02
9		6.95	0.05
10	ocimene <(Z)-beta>	7.73	0.44
11	ocimene <(E)-beta>	8.23	0.52
12		8.63	0.01
13	terpinolene	9.06	0.02
14		9.30	0.04
15		12.66	0.14
16		12.96	0.02
17		13.22	0.06
18		13.52	0.09
19	linalool oxide <cis>	14.64	0.06
20		15.30	0.06
21		15.56	0.05
22	linalool oxide <trans>	15.67	0.09
23	copaene <alpha>	16.39	0.08
24		16.72	0.06
25		17.17	0.04
26		17.76	0.04
27		18.18	0.02
28	linalool	19.03	23.08
29	linalool acetate	19.42	59.27
30		19.67	0.34
31	caryophyllene<E>+elemene<beta>	20.15	2.52
32	terpinen-4-ol	20.45	0.07
33		20.78	0.33
34		22.22	0.03
35		22.54	0.03
36		22.77	0.02
37		23.00	0.02
38		23.11	0.07
39		23.45	0.02
40		23.80	0.07
41	terpineol<alpha>+borneol+germa	23.92	3.91
42		24.10	0.07
43		24.26	0.02
44		24.82	0.03
45	geranial	24.94	0.10
46	neryl acetate	25.22	1.06
47		25.74	0.02
48	cadinene <gamma>	25.92	0.05
49	geranyl acetate	26.32	2.36
50		26.45	0.03
51	nerol	27.70	0.42
52	geraniol	29.37	0.98
53		32.41	0.02
54	caryophyllene oxide	32.65	0.12
55		33.14	0.03
56		34.16	0.03
57		36.69	0.06

12/12/2017 9:46:21 AM Result:

pic #	Nom composant	TR [min]	Aire [%]
58		40.11	0.08
59		40.47	0.09
60		40.66	0.02
61		40.83	0.03
62		41.08	0.03
63		44.31	0.03
64		45.52	0.12
65	sclareol	62.42	0.34
			100.00

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Laboratoire Rosier Davenne

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# Chromatogram

Sample Name : HE Sauge Sclaree 306JA701      Sample #: 306JA701      Page 1 of 1  
 FileName : C:\Data\Colonne Polaire\Huiles Essentielles\Sauge\Sauge Sclaree\2017\sauge sclaree 171211.raw  
 Date : 12/12/2017 9:46:22 AM  
 Method : sauge sclaree.mth      Time of Injection: 12/11/2017 8:11:50 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

