

Certificate of Analysis

Analysed essential oil : **Celery Seeds**

Analysis date : July, 19th 2016

Batch : 170AC5504

Shelf life : December 2017

❖ General description

Essential oil	Celery	Origin	France
Latin name	Apium graveolens L.		

❖ Organoleptic characteristics

Appearance	Clear and mobile liquid
Colour	Light yellow
Odour	Characteristic

❖ Physico-chemical characteristics

	Results (at 20°C)	Technical specifications				
Specific gravity	0.905	0.875	<	d	<	0.908
Refractive index	1.4859	1.4780	<	IR	<	1.4900
Optical rotation	+52,55°	+48°	<	$[\alpha]_{20D}$	<	+78°

❖ 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 : H₂

⇒ See Chromatogram : polar column

Date : 2016-07-16

Software Version : 6.3.2.0646
Sample Name : Celeri semences 170AC504
Instrument Name : CLARUS 500
Rack/Vial : 0/10
Sample Amount : 1.000000
Cycle : 10

Date : 7/19/2016 5:29:58 PM
Data Acquisition Time : 7/19/2016 7:01:25 AM
Channel : B
Operator : Charlene
Dilution Factor : 1.000000

Result File :
Sequence File : C:\Sequences\CPG\2016\160718b.seq

Rapport d'analyse

colonne polaire Elite WAX

pic #	Nom composant	TR [min]	Aire [%]
1	pinene <alpha>	2.89	0.20
2	pinene <beta>	4.14	3.69
3	sabinene	4.41	0.06
4	myrcene	5.42	1.54
5	limonene+phellandrene<beta>	6.30	59.83
6		7.30	0.27
7		8.12	0.02
8	cycloheptadiene <4-butyl-6,1>	10.29	2.96
9		12.12	0.03
10		12.33	0.04
11	benzene <pentyl>	13.00	0.36
12		13.87	0.30
13		14.32	0.26
14		17.58	0.10
15		17.82	0.09
16	linalool	18.24	0.04
17	caryophyllene <(E)>	19.41	0.62
18		20.71	0.19
19		21.35	0.13
20		21.88	0.05
21		22.20	0.25
22		22.75	0.25
23		23.15	0.11
24	selinene <beta>	23.64	6.81
25	selinene <alpha>	23.81	1.26
26		24.87	0.07
27		25.15	0.15
28		25.62	0.06
29		25.89	0.09
30		26.49	0.05
31		27.15	0.06
32	carveol <trans>	27.78	0.31
33		28.76	0.16
34	valerophenone	29.47	0.15
35		31.11	0.04
36		31.93	0.80
37		32.85	0.03
38		33.34	0.03
39		36.72	0.03
40		37.24	0.03
41		37.61	0.08
42		38.37	0.03
43		39.52	0.08
44		39.85	0.16
45		40.01	0.03
46		40.18	0.05
47		40.34	0.03
48		41.04	0.23
49		41.18	0.10
50		42.55	0.03
51		43.68	0.82
52		45.11	0.23
53		46.18	0.03
54		46.55	0.04
55		46.75	2.24
56	butyl phtalide <3>	46.93	4.09
57		47.95	0.36

7/19/2016 5:29:58 PM Result:

pic #	Nom composant	TR [min]	Aire [%]
58		48.32	0.08
59	sedanenolide	48.82	8.98
60		58.23	0.04
61		61.70	0.23
62		63.08	0.49
			100.00

Laboratoire Rosier Davenne

Chromatogram

Sample Name : Céleri semences 170AC504 Sample #: 170AC504 Page 1 of 1
 FileName : C:\Data\Colonne Polaire\Huiles Essentielles\Céleri\2016\céleri semences 160718.raw
 Date : 7/19/2016 5:29:59 PM
 Method : céleri semences.mth Time of Injection: 7/19/2016 7:01:25 AM
 Start Time : 0.00 min End Time : 82.00 min Low Point : -47.11 mV High Point : 993.88 mV
 Plot Offset: -47.11 mV Plot Scale: 1041.0 mV

