

# Certificate of Analysis

Analysed essential oil : Coriander Leafs

Analysis date : June, 25<sup>th</sup> 2015

Batch : 175SA501

Shelf life : july 2017

## ❖ General description

Essential oil	Coriander Leafs	Origin	France
Latin name	<i>Coriandrum sativum</i> L.		

## ❖ Organoleptic characteristics

Appearance	Clear and mobile liquid
Colour	Light yellow
Odour	Characteristic

## ❖ Physico-chemical characteristics

	Results (at 20°C)	Technical specifications			
Specific gravity	0.863	0.862	<	d	< 0.878
Refractive index	1.4544	1.4500	<	IR	< 1.5100
Optical rotation	+3.55°	+0°	<	$[\alpha]^{20}_d$	< +10°

## ❖ 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 : H<sub>2</sub>

⇒ See Chromatogram : non-polar column

Date : 2015-06-25

Software Version : 6.2.0.0:B27  
Sample Name : Coriandre Feuilles  
Instrument Name : CLARUS 500  
Rack/Vial : 0/6  
Sample Amount : 1.000000  
Cycle : 6

Date : 25/06/2015 17:01:27  
Data Acquisition Time : 25/06/2015 01:22:58  
Channel : A  
Operator : Davenne  
Dilution Factor : 1.000000

Result File :  
Sequence File : C:\Sequences\CPG\2015\150624.seq

## Rapport d'analyse

colonne apolaire

Pic #	Component Name	TR [min]	Area [%]
1		3.77	0.02
2		5.73	0.09
3		6.86	0.13
4		7.23	0.20
5		8.17	0.05
6	nonane <n>	8.88	3.22
7		9.75	0.02
8	pinene <alpha>	10.01	2.17
9	camphene	10.50	0.21
10	sabinene	11.44	0.05
11	pinene <beta>	11.59	0.18
12	octanal <n>	12.14	0.33
13	decane <n>	12.94	0.32
14	cymene <p>	13.41	1.96
15	limonene	13.81	0.51
16	terpinene <gamma>	15.09	1.12
17		15.46	0.42
18		16.12	0.23
19	terpinolene	16.45	0.08
20	linalool	16.86	23.09
21		17.45	0.14
22	camphor	18.20	1.18
23		19.01	0.04
24	borneol	19.54	0.06
25		19.81	0.04
26	terpinen-4-ol	20.08	0.19
27		20.48	0.06
28	terpineol <alpha>	20.67	0.28
29	decenal <(4Z)>	20.87	0.48
30	decenal <n>	21.33	5.49
31		22.53	0.09
32		23.08	0.29
33	geraniol + decenal <(2E)>	23.75	18.69
34	decen-1-ol <(2E)>	24.43	12.26
35	decen-1-ol <(2Z)>	24.61	3.04
36		25.38	0.03
37		25.62	0.05
38	undecanal	25.82	0.76
39		26.40	0.03
40		26.69	0.38
41		26.97	0.18
42		27.46	0.35
43	undecenal <(2E)>	28.07	1.52
44		28.63	0.49
45		28.82	0.43
46	geranyl acetate	28.97	0.70
47		29.51	0.06
48		29.64	0.18
49	dodecanal	30.12	0.98
50		30.30	0.19
51		30.87	0.02
52	caryophyllene <(E)>	31.01	0.03
53		31.19	0.04
54		31.75	0.14
55	dodecenal <(2E)>	32.36	5.93
56		32.78	0.79
57		32.98	0.08
58		33.99	0.01

25/06/2015 17:01:27 Result:

Pic #	Component Name	TR [min]	Area [%]
59		34.21	0.06
60		34.92	0.04
61		35.86	0.12
62		36.32	0.20
63		36.49	0.09
64		36.91	0.03
65		37.61	0.14
66		38.11	0.24
67		39.60	0.07
68	tridecen-1-al <(2E)>	40.19	3.53
69		40.50	0.08
70		41.19	0.05
71		43.45	0.08
72		43.77	0.19
73		47.23	0.13
74		49.94	0.03
75		51.98	0.17
76		52.89	0.06
77		53.49	0.02
78		54.84	0.02
79		54.99	0.02
80		55.61	0.04
81		56.01	1.69
82		56.39	0.13
83		56.55	0.08
84		56.76	0.10
85		57.00	0.30
86		57.37	0.11
87		57.72	0.10
88		57.86	0.11
89		58.07	0.03
90		58.42	0.11
91		58.76	0.21
92		59.17	0.02
93		59.72	0.09
94		61.45	0.54
95		61.85	0.02
96		62.07	0.10
97		62.39	0.26
98		63.12	0.06
99		63.33	0.04
100		67.66	0.24
101		68.34	0.03
102		69.12	0.05
103		79.07	0.07
			100.00

Chromatogram

Sample Name : Coriandre Feuilles      Sample #: 175SA501      Page 1 of 1  
FileName : C:\Data\Colonne Apolaire\Huiles Essentielles\Coriandre\Coriandre Feuilles\2015\coriandre feuilles 150624.raw  
Date : 25/06/2015 17:01:30  
Method : Coriandre Feuilles Pure.mth      Time of Injection: 25/06/2015 01:22:58  
Start Time : 0.00 min      End Time : 82.00 min      Low Point : -13.78 mV      High Point : 358.75 mV  
Plot Offset: -13.78 mV      Plot Scale: 372.5 mV

