

## Certificate of Analysis

**SVETOL®**

**Batch N°: A135/058/A12**

**Ref.  
GA501071**

	SPECIFICATIONS	METHODS	RESULTS
<b>Organoleptic Quality :</b>			
Appearance:	Fine powder	Visual: (CQ-MO-148)	Conform
Color :	Yellow to yellow brown	Visual: (CQ-MO-148)	Conform
Flavor :	Characteristic	Sensory: (CQ-MO-148)	Conform
<b>Active Compound :</b>			
Total polyphenols content :	50.0 - 55.0 %	Folin as chlorogenic acid: (CQ-MO-275)	51.46
Total chlorogenic acids content :	45.0 - 50.0 %	HPLC: (CQ-MO-431)	45.45
5-caffeoylquinic acid content :	10.0 - 15.0 %	HPLC: (CQ-MO-431)	13.65
5-caffeoylquinic acid/total chlorogenic acids ratio :	0.20 - 0.30	Calcul	0.30
Caffeine content :	< 2.0 %	HPLC: (CQ-MO-431)	0.33
<b>Analytical Quality :</b>			
Identification :	Conform by HPLC	HPLC: (CQ-MO-431)	Conform
Loss on drying :	< 8 %	I.R. Balance: (CQ-MO-018)	2.54
Particle size :	100 % < 250 µm	Sieve: (CQ-MO-023)	100
pH (4% in water) :	3.5 - 5.5	pH Meter (CQ-MO-123)	4.92
Residual ethanol content :	< 5 000 ppm	GC: (CQ-MO-168)	Conform
Aflatoxins (B1+B2+G1+G2) content :	< 4 µg/kg	NF.EN.12955	Conform
Aflatoxin B1 content :	< 2 µg/kg	NF.EN.12955	Conform
Ochratoxin A content :	< 10 µg/kg*	NF.EN.14132	Conform
Total heavy metals :	< 10 ppm	CQ-MO-247	Conform
Lead content :	< 3 ppm	CQ-MO-247	Conform
Arsenic content :	< 1 ppm	CQ-MO-247	Conform
Cadmium content :	< 1 ppm	CQ-MO-247	Conform
Mercury content :	< 0.1 ppm	CQ-MO-247	Conform
Pesticide residues :	Complies with Eur. Ph. 2.8.13 current ed.	External laboratory	Conform
<b>Microbiological Quality :</b>			
Total plate count :	< 10 000 cfu/g	Eur. Ph. current ed. - 5.1.4	Conform
Yeasts and molds :	< 100 cfu/g	Eur. Ph. current ed. - 5.1.4	Conform
Enterobacteria :	< 100 cfu/g	Eur. Ph. current ed. - 5.1.4	Conform
Salmonella :	Negative/10g	Eur. Ph. current ed. - 5.1.4	Conform
E.coli :	Negative/g	Eur. Ph. current ed. - 5.1.4	Conform
Staphylococcus aureus :	Negative/g	Eur. Ph. current ed. - 5.1.4	Conform

**Description :**

Botanical name : Coffea canephora Pierre ex A. Froehner syn. Coffea robusta L. Linden  
 Trade name : SVETOL®  
 Used part : decaffeinated green beans  
 Nature of the solvent : water (70 %) and alcohol (30 %)  
 Carriers: Maltodextrin (0 - 8 %), Silica (0 - 2 %)  
 Plant/extract ratio : between 6:1 and 8:1

\*Conform with our specifications, analysis performed once a year.

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**SPECIFICATIONS**

**METHODS**

**RESULTS**

Manufacturing date : May 14, 2012

Expiry date : May 12, 2014 .

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Date of issue : June 5, 2012

**Guillaume BLIN**  
Quality Control Manager

