

Naturally manage your weight



Coach your body



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Market opportunities

According to the International Obesity Taskforce (IOTF), **up to 1.7 billion people in the world may be exposed one day to weight-related health risks, including glucose metabolism disturbances.** Epidemiological studies show a positive correlation between high coffee consumption and improved glycemic control.

Svetol® as an innovative solution

Naturex developed Svetol®, a green coffee bean extract with a **unique mechanism of action to help consumers manage their weight.** Svetol®'s non selective and traditional process preserves the natural profile of the beans' active molecules and guarantees its slimming effect. Both mechanism of action and efficacy have been scientifically tested to provide consumers with the best from coffee.



Premium characteristics

Unique profile in chlorogenic acids
Specific ratio linked to the activity
Low caffeine
Free diterpenes

Svetol® is a decaffeinated green coffee bean extract (*Coffea canephora robusta* Pierre). The selection of the Robusta variety as well as the use of green coffee beans in the extraction process, guarantee a unique composition in active compounds (figure 1). Indeed, the traditional extraction process of green coffee beans ensures a **well-balanced chlorogenic acids' profile** (figure 2) and guarantees optimal bioavailability and efficacy. In addition, the removal of caffeine combined with the absence of cafestol and kahweol, avoid the risk of side effects often associated to the consumption of these molecules.

Svetol®'s composition

Total polyphenols	50 - 55%
Total chlorogenic acids (t-CGA)	45 - 50%
5-caffeoylquinic acid (5-CQA)	10 - 15%
Caffeine	0 - 2%
5-CQA/ t-CGA ratio	0.2 - 0.3

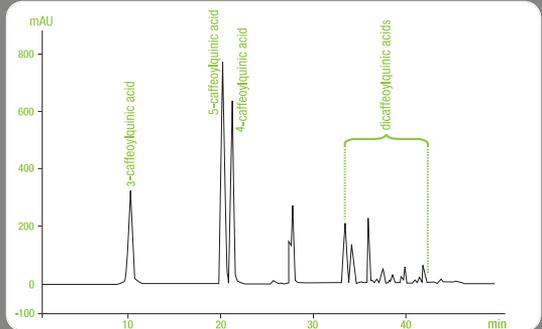
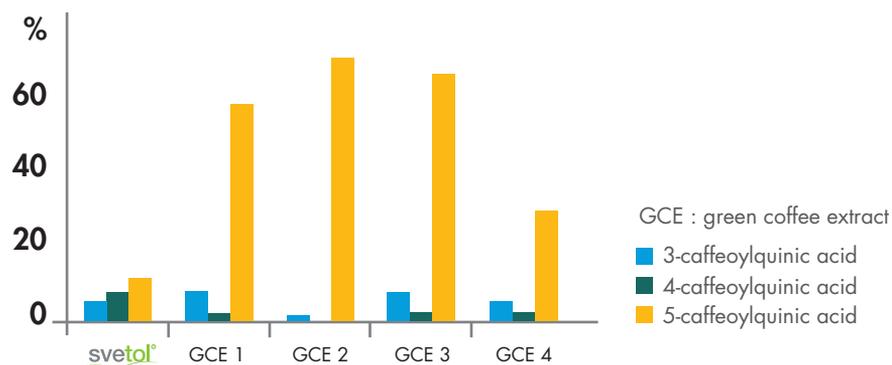


Figure 1 : Example of Svetol®'s HPLC profile.

Figure 2: Svetol®, well balanced chlorogenic acids profile versus competition.



Scientific evidence

Prospective clinical study – Randomized double-blind, placebo controlled clinical study
 Bioavailability clinical study – Mechanistic *in vitro* studies

A 400 mg daily supplementation with Svetol® has been clinically proven to:

- Have slimming effects versus placebo;
- Provide beautifying effects by increasing the lean mass to fat mass ratio (LM/FM);
- Be bioavailable in humans.

These clinical results originate from two synergic mechanisms of action:

- Decrease of intestinal glucose absorption;
- Reduction of the liver glycogenolysis rate in the body, inducing the use of fat as source of energy.

BIOAVAILABILITY

Svetol® has been proven to be highly bioavailable in humans (Farah *et al.*, 2008). Svetol®'s active constituents like chlorogenic acids - including 3-, 4- and 5-caffeoylquinic acids and dicaffeoylquinic acids - are particularly well absorbed from the intestine.

HEALTH & FITNESS BENEFITS



Figure 3: Clinical results obtained after a 60 days supplementation with 400 mg/day of Svetol®.

VALIDATED MECHANISM OF ACTION

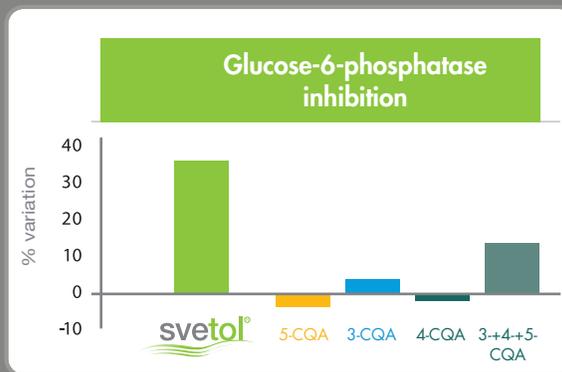
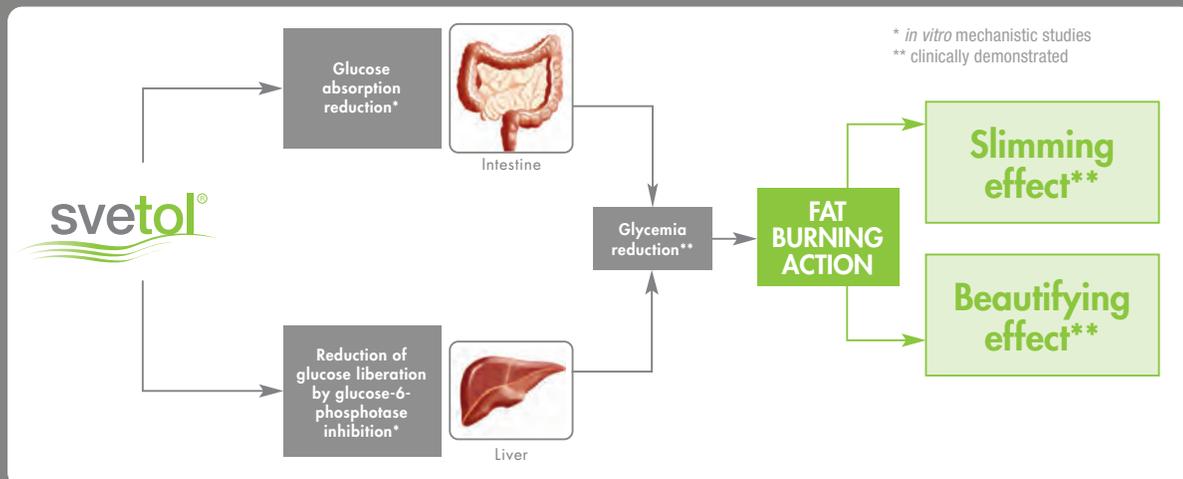


Figure 4: Svetol® action on glucose-6-phosphatase from human liver microsomes, compared to isolated chlorogenic acids.

MECHANISM OF ACTION



Bibliographical references:
 - van Dam *et al.*, 2006.
 - Blum *et al.*, 2007.
 - Dellalibera *et al.*, 2006.
 - Henry-Vitrac *et al.*, 2010.
 - Nardon *et al.*, 2007.
 - Farah *et al.*, 2008.



Coach your body

Svetol® is the only ingredient on the slimming market to propose such an original mechanism of action: Svetol® inhibits glucose-6-phosphatase and increases fat release from the adipose tissue (scientifically tested). Moreover, its efficacy on weight management has been clinically proven.

The extraction process and the specific varieties of beans selected have been combined to obtain Svetol® and provide final consumers with the best from coffee. Svetol®'s clinically proven efficacy is guaranteed by its unique and specific profile in active molecules, especially chlorogenic acids. Additionally, the risk of side effects of the product is avoided by ensuring a low caffeine content and selecting coffee beans free of diterpenes.

Commercial name	Svetol®	www.svetol.com
Complete name	Decaffeinated green coffee bean extract > <i>Coffea canephora robusta</i> Pierre	
Appearance	Yellow to yellow brown powder	
Active compounds	Total polyphenols	50 - 55%
	Total chlorogenic acids (t-CGA)	45 - 50%
	5-caffeoylquinic acid (5-CQA)	10 - 15%
	5-CQA/ t-CGA ratio	0.2 - 0.3
Undesirable compounds	Caffeine < 2% Diterpenes < 2ppm	
Scientific results	Prospective clinical study – Randomized double-blind, placebo controlled clinical study Bioavailability clinical study – Mechanistic <i>in vitro</i> studies Health Benefit: - Decreases the glucose intestinal absorption - Reduces body weight - Inhibits the glucose-6-phosphatase in the liver Fitness Benefit: - Increases the lean mass to fat mass ratio	
Bioavailability	Clinical results confirm the bioavailability of the active compounds in Svetol® especially chlorogenic acids (3-; 4-; 5-caffeoylquinic acids and dicaffeoylquinic acids)	
Lifestyle	> Weight management	
Claims	> Contributes to body weight management by lowering glucose release in the blood stream	
Application	Svetol® can be used in any food preparation and food supplements	
Recommended dosage	400 mg / day in one or more doses before a meal	
Safety & quality	No side effects have been reported in the clinical studies. No risks have been identified in the usual toxicological tests. Svetol® is a 100% guaranteed plant extract which conforms to current European standards regarding the absence of GMO, allergens, pesticides, heavy metals, aflatoxins and ochratoxin A. The microbiologic tests comply with current Eur. Ph. 5.1.4.	

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