

Naturally manage your weight

svetol[®]

by **NAT'Life**



svetol[®]

Coach your body

Naturally manage your weight

Market opportunities

The International Obesity Task Force (IOTF) estimates that up to 1.7 billion people in the world may be exposed one day to weight-related health risks, including increased glucose metabolism disturbances. Epidemiologic studies show a positive correlation between a high coffee consumption and the decreased risk of developing glycemia troubles.

Svetol® as an innovative solution

NAT'Life developed Svetol®, a green coffee bean extract with a unique mechanism of action to help consumers better 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%

t-CGA/5-CQA ratio 0.2 - 0.3

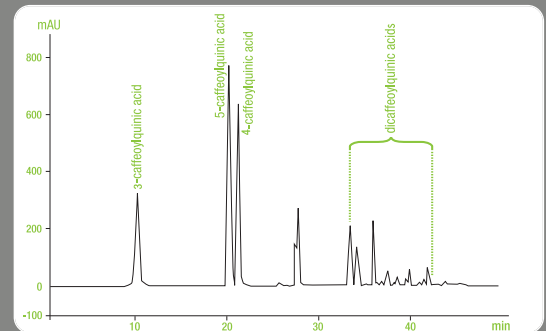
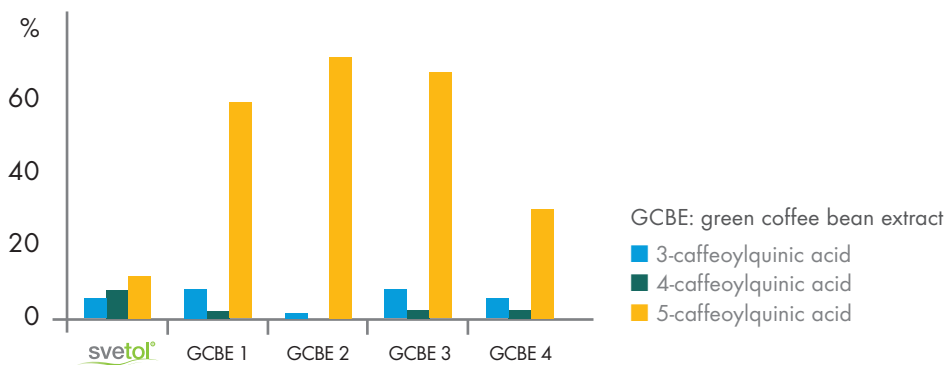


Figure 1: Example of Svetol®'s HPLC profile.

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.

This clinical results originate from two synergic mechanisms of action:

- The reduction of post-prandial glycemia, related to a decrease of intestinal glucose absorption and an inhibition of glucose-6-phosphate;
- The increase of fat release from the adipose tissue.

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

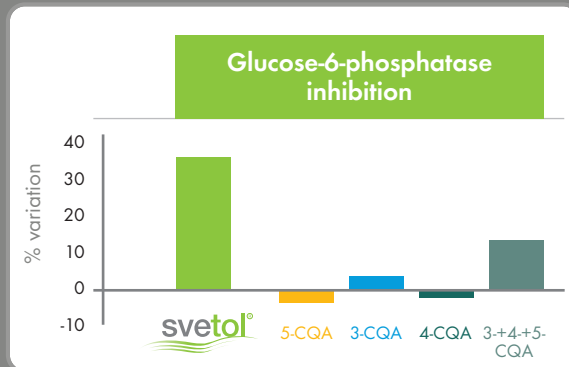
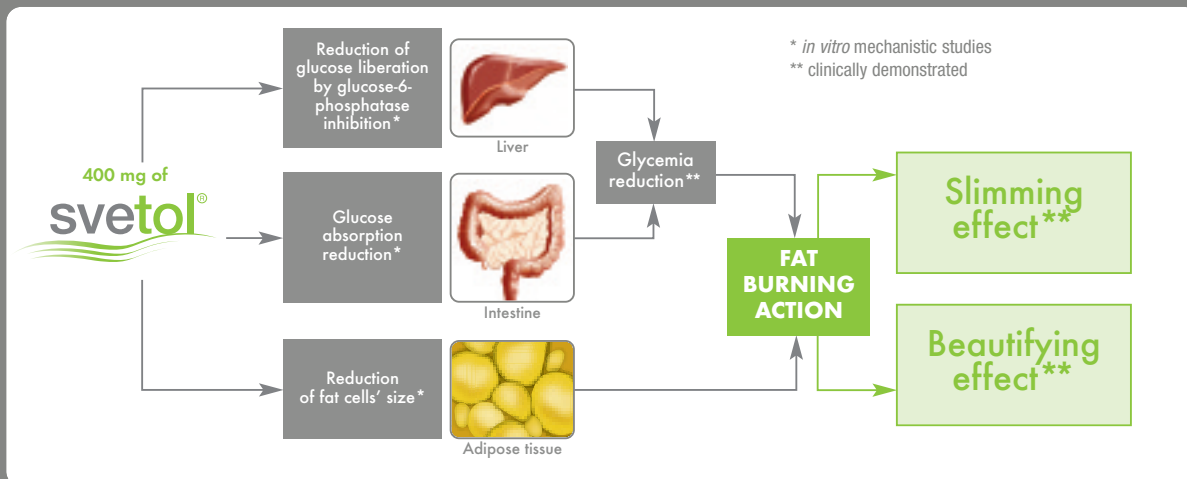


Figure 4: Svetol® action on glucose-6-phosphatase from human liver microsomes, compared to isolated chlorogenic acids.

MECHANISM OF ACTION



Bibliographical references:

- van Dam *et al.*, 2006
- Blum *et al.*, 2007
- Dellalibera *et al.*, 2006
- Lafay *et al.*, Submitted
- 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® (ref. 501071 - For Europe only : 501320)
Complete name	Decaffeinated green coffee bean extract > <i>Coffea canephora robusta</i> Pierre
Appearance	Yellow fine powder
Active compounds	Total polyphenols 50 - 55% Total chlorogenic acids (t-CGA) 45 - 50% 5-caffeoylquinic acid (5-CQA) 10 - 15% t-CGA / 5-CQA 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 fat release from the adipose tissue - 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 the 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 the Eur. Ph. 5 th Ed. 2005, 5.1.4 Cat. 3B.

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Program the best for your life with NAT'Life

With today's modern and urban lifestyles, NAT'Life brings solutions to active people. NAT'Life offers unique active ingredients naturally-extracted to help you create new products for harmonious and balanced lifestyles.

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