

(Human Clinical Study

A human clinical study (placebo, 20 volunteers, 12 weeks) has demonstrated **Sinetrol®** benefits (safe and effective natural ingredient) that promotes body fat (fig. 2) and body weight loss (fig. 1).

Figure 1

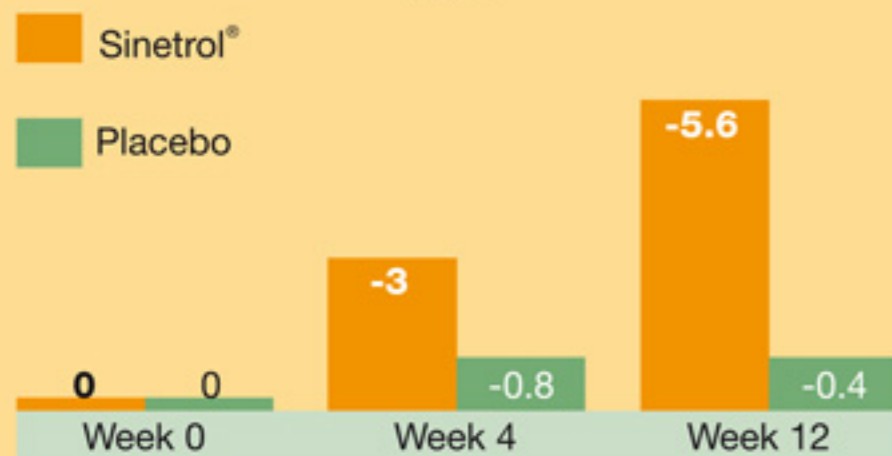
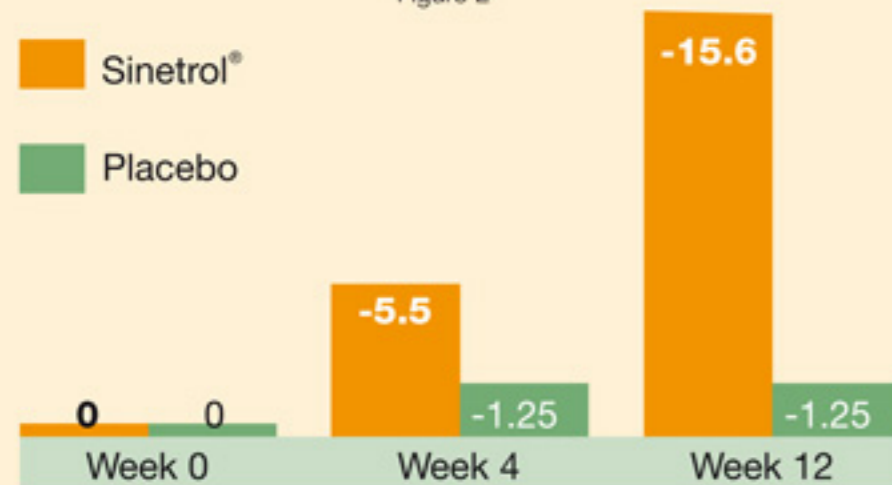


Figure 2



Taken at the daily recommended dose, **Sinetrol®** has showed significant results² on :

- **body weight loss** (kg) - Fig.1
3 kg after 4 weeks
5,6 kg after 12 weeks
- **body fat loss** (%) - Fig.2
5,5% after 4 weeks
15,6% after 12 weeks



²Phytomedicine (2008, 15, 783-792)

• Patented citrus ingredient for food & food supplements •

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FAT BURNER

Sinetrol®



Conception graphique : C. Comm'ca : 04 68 27 29 70

What is Sinetrol® ?

Sinetrol® is a patented¹ fat burner ingredient for weight management food and food supplements.

Sinetrol® is a natural and safe dry extract derived from consumed citrus fruits (grapefruit, red orange, orange) and guarana.

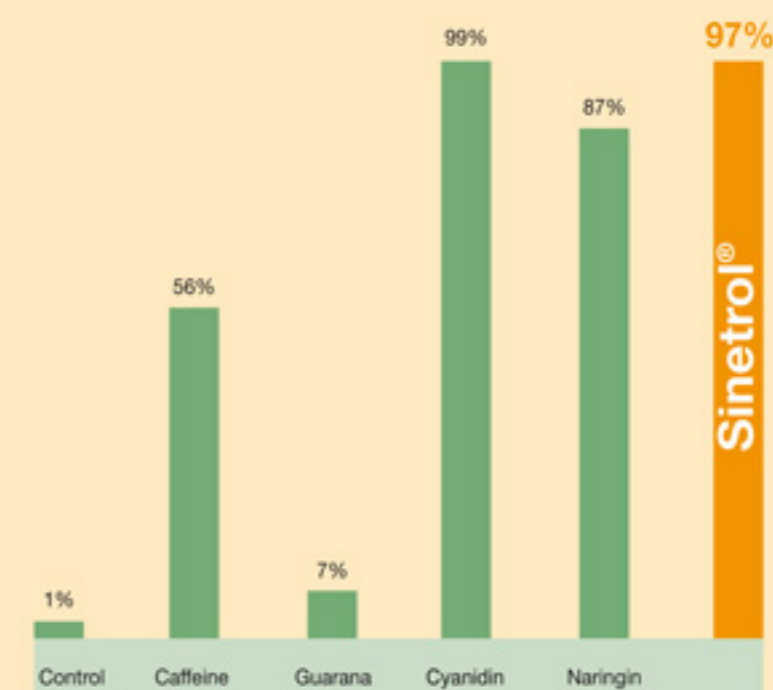
Sinetrol® composition

Sinetrol® is a standardized extract in polyphenols compounds such as anthocyanins, flavonoids, phenolic acids and caffeine (supplementation with guarana).

	Sinetrol®-XPur	Sinetrol®-EXP	Sinetrol®-WS
Polyphenols	90 %	60 %	60 %
Flavanones	20 %	10%	10%
Synephrine	No synephrine	0,5 – 2 %	0,5 – 2 %
Dose	0,9 g / day	1,4 g / day	1,4 g / day
Application	Food Supplements	Food supplements	Functional Foods
Solubility	Moderate soluble	Moderate Soluble	100 % Water Soluble at 2 %
Heat stability	Stable at 100°C, 1 min	Stable at 100°C, 1 min	Stable at 100°C, 1 min
pH stability	Stable at 3,5 – 4,5 – 6,5	Stable at 3,5 – 4,5 – 6,5	Stable at 3,5 – 4,5 – 6,5

Inhibition of PDE by Sinetrol®

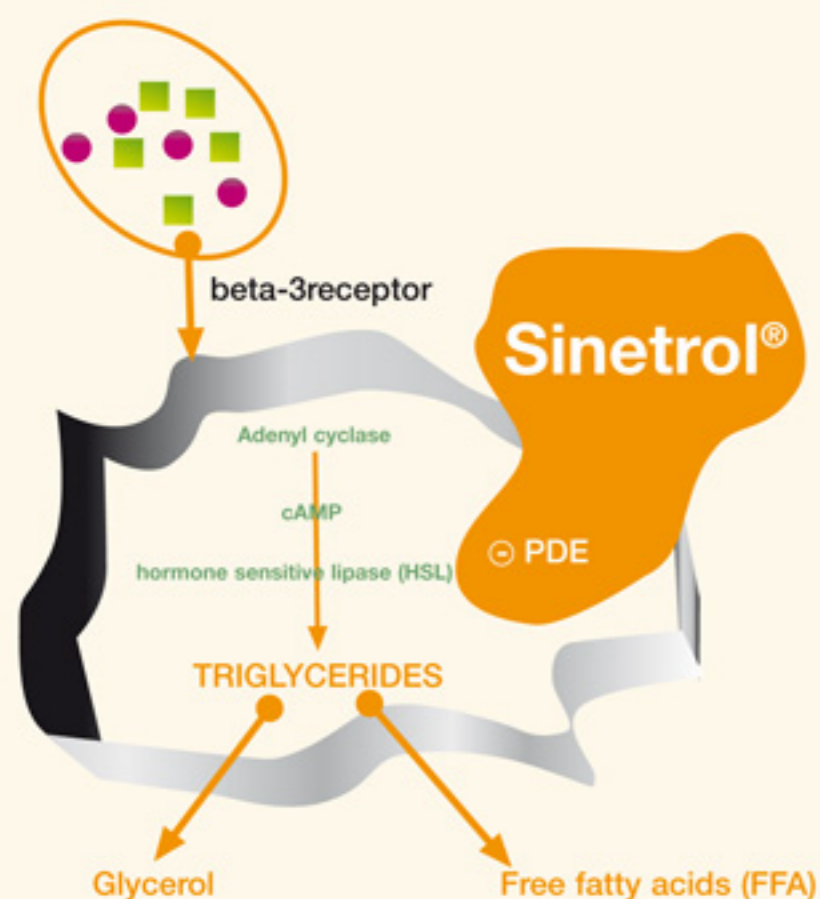
Sinetrol® inhibition of PDE was tested in a vitro model and compared to standard lipolytic compounds (Caffeine, Guarana 12%, Cyanidin-3 gluc, Naringin).



Sinetrol® inhibits significantly PDE **97 %** (p<0.001), compared to placebo.

Mechanism of action

Sinetrol® synergetic polyphenolic composition stimulates the adipocytes lipolysis by inhibition of Phosphodiesterase (PDE).



¹International Patent WO/2008/135643

Sinetrol® : adding value to your formulation !

Food supplements

- ideal for capsules
- ideal for tablets
- ideal for sticks

Food applications

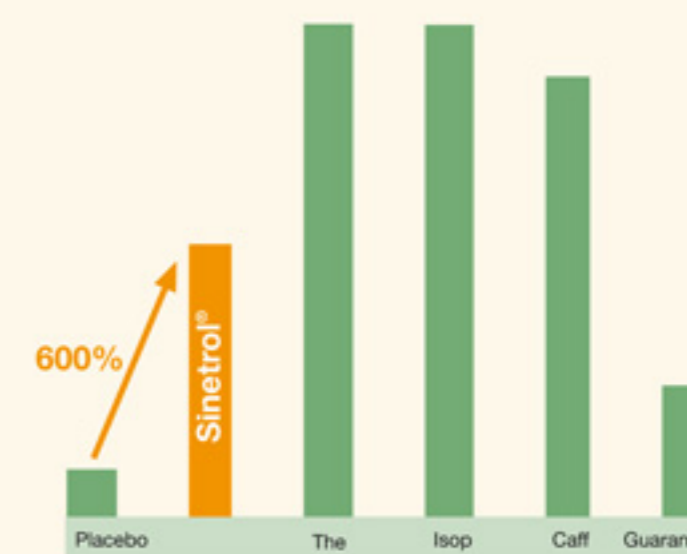
- ideal for beverages
- ideal for dairy products
- ideal for bakery products



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Sinetrol® Fat burner efficacy

Sinetrol® fat burner activity was measured by the release of Free Fatty acids (FFA) and compared with well-known lipolytic products (Isoproterenol (Isop), Theophyline (The), Caffeine (Caff), Guarana 12 %).



Sinetrol® stimulates significantly (p<0.05) the lipolytic (fat burner) activity more than **600%** compared to placebo.