

CONCEPT
TO FORMULATE

sinetrol®
ACTIVE LIVING

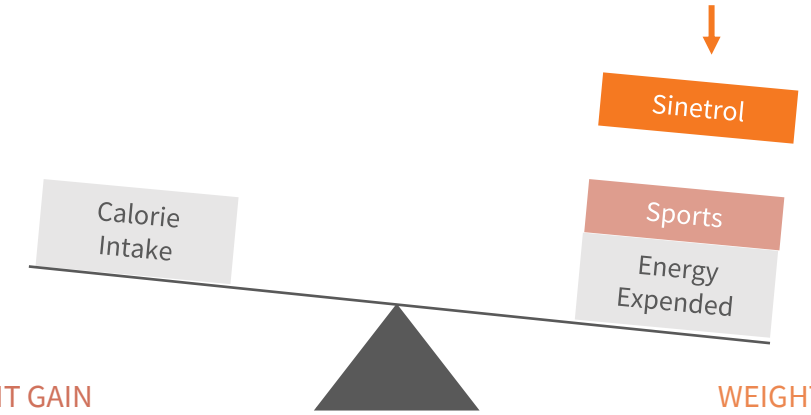
Fytexia

WEIGHT MANAGEMENT FOR ACTIVE POPULATION

CONSUMER TRENDS

- **Behaviors toward dieting evolve**
- **People are less and less dieting but try to eat healthier:**
  Shift from pure weight loss to holistic health focus
- **Sports is included in a fat loss strategy**
  More than 70% of people trying to lose weight plan to exercise

METABOLISM & ENERGY EXPENDITURE



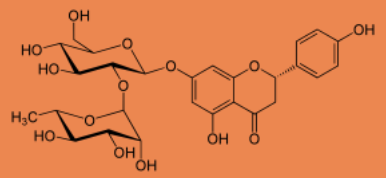
Sports NEEDS OF FUEL:



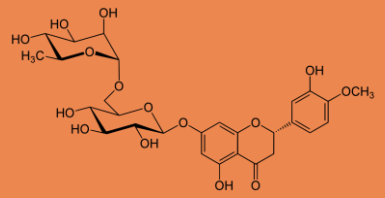
Circulating nutrients > Glycogen > Stored fat (lipolysis)

Sinetrol

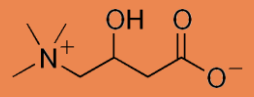
ACTIVE INGREDIENT
FOR WEIGHT MANAGEMENT



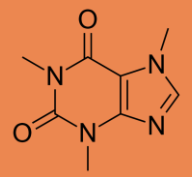
NARINGIN



HESPERIDIN



L-CARNITINE



CAFFEINE

SINETROL ACTIVE LIVING

ACTIVE COMPOUNDS

Flavanones: 23%
- Naringin
- Hesperidin

L-carnitine: 240 mg
Caffeine: 148 mg

BOTANICAL SOURCES & OTHER INGREDIENTS

Grapefruit extracts	*Citrus grandis (L.) Osbeck, Citrus paradisi Macfad*
Orange extract	*Citrus sinensis (L.) Osbeck*
Guarana extract	*Paullinia cupana Kunth*
L-carnitine L-tartrate	
Sodium chloride	

FORMULATION

Recommended daily dose: from 1230mg
No allergen, Non-GMO, gluten-free

sinetrol®
ACTIVE LIVING

SUPPORTING SCIENCE ON SINETROL

Comprehensive development pathway

SINETROL

SINETROL ACTIVE LIVING



IN VITRO STUDY | **PRE-CLINICAL STUDY** | **PILOT CLINICAL STUDY** | **PIVOTAL CLINICAL STUDY** | **DEDICATED STUDY ON SINETROL ACTIVE LIVING**

SUPPORTING SCIENCE ON SINETROL

- **CHARACTERIZATION OF THE ACTIVE COMPOUNDS** from the ingredient to their human metabolites
- **MECHANISM OF ACTION** – Investigated *ex vivo* & demonstrated during clinical trials
- **CLINICAL BENEFITS ON BODY COMPOSITION**
- **DEMONSTRATION OF THE CAUSAL RELATIONSHIP**

SUPPORTING STUDIES - Publications

Dallas *et al.* 2008; *Phytomedicine*
Dallas *et al.* 2014; *Phytother. Res.*
Cases *et al.* 2015; *Int. J. Food Sci. Nutr.*
Yoo *et al.* 2016; *J. Korean Soc. Food Sci. Nutr.*
Lee *et al.* 2017; *J. Korean Soc. Food Sci. Nutr.*
Park *et al.* 2020; *J. Med Food*
Poher *et al. Publication pending*

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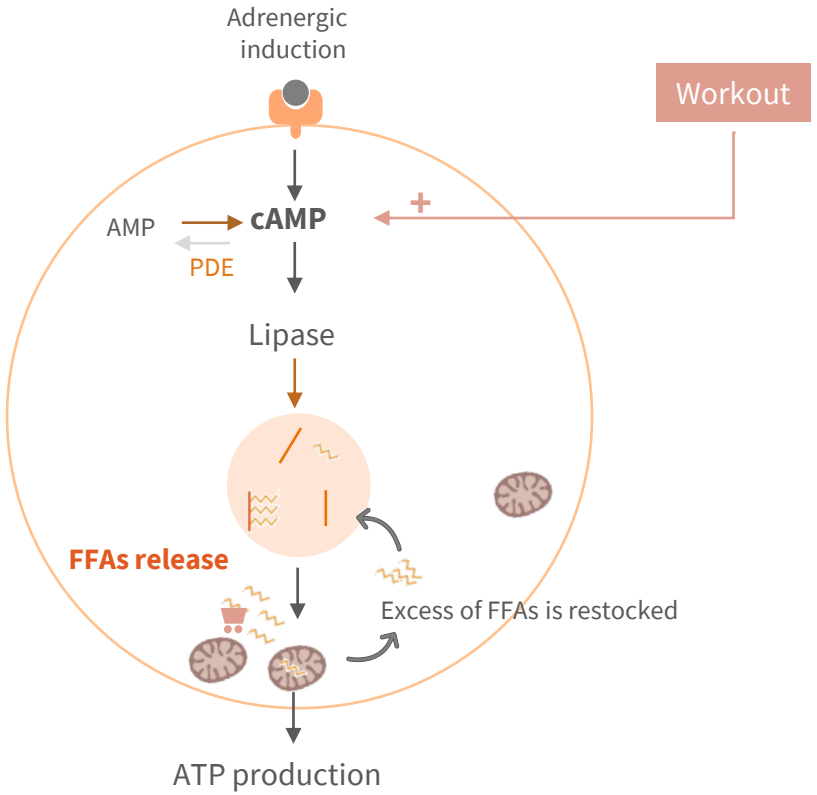
DEDICATED STUDY – Publication pending

J. Cases *et al. Publication pending*

MECHANISM OF ACTION - LIPOLYSIS

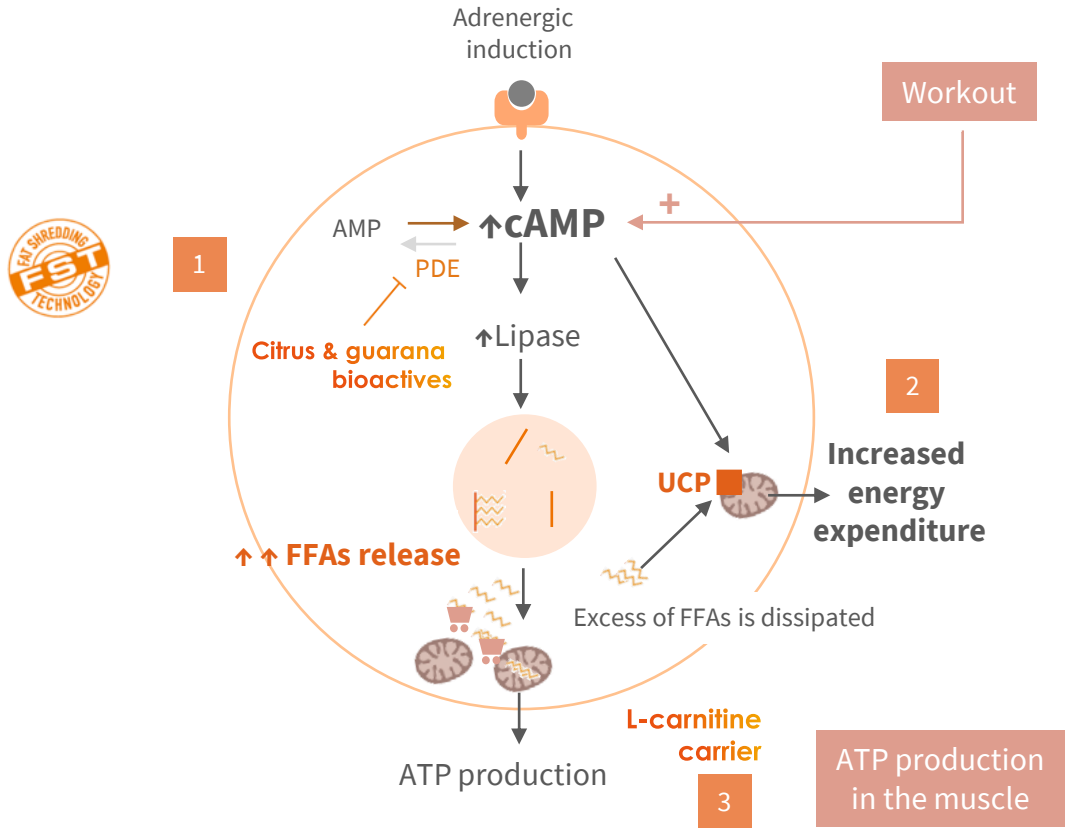
Physiological fat-based energetic pathway

Lipolysis = Catabolic process maintaining energy requirements by drawing on adipocytes



MECHANISM OF ACTION - LIPOLYSIS

Sinetrol Active Living



1 / SINETROL ENHANCES PHYSIOLOGICAL LIPOLYSIS THROUGH PDE-INHIBITION

↑ FFAs release with Sinetrol + Workout = ↑↑ FFAs release

2 / SINETROL INTENSIFIES FFAs METABOLIZATION THROUGH UCPs EXPRESSION PROMOTION

3/ L-CARNITINE WORKS CARRIES FFAs TO INCREASE LIPID OXIDATION IN THE MUSCLE

SCIENTIFICALLY SUPPORTED INGREDIENT

- **Supporting science on Sinetrol** on body composition and energy expenditure
- **Dedicated study on Sinetrol Active Living**
- Study runs on healthy recreationally active population

DEDICATED CLINICAL TRIAL

Double-blind, randomized, placebo-controlled study

LOCATION

Murcia, Spain
Clinical facility,
UCAM, University of Murcia

YEAR & DURATION

2016
8 weeks

POPULATION

21 recreationally active subjects
Caucasian population
BMI: 22-30 kg/m^2
Age: 22-55 years old

PROTOCOL

Physical activity
3 times a week

VO_2max at W1 and W8
Endurance capacity

Energetic metabolism

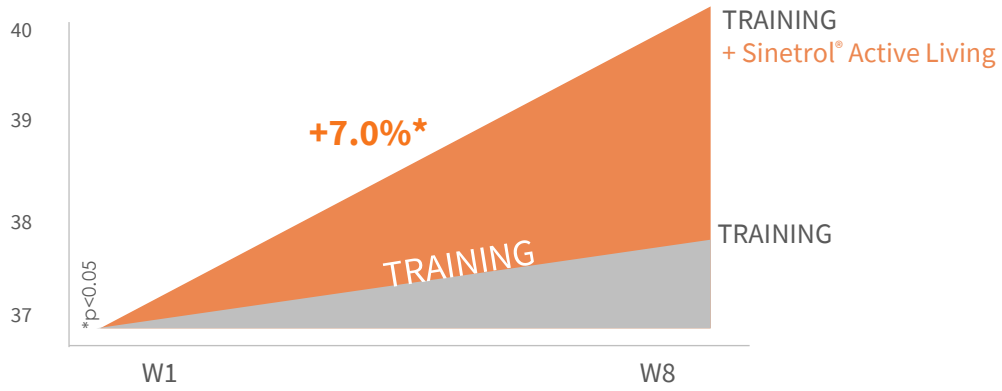
INTAKES

CAPSULES
3 x 430 mg / day

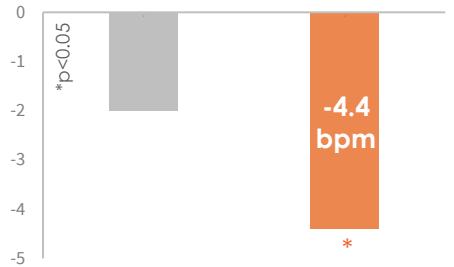
AEROBIC WORKOUT SUPPORT

Stored lipid sustaining energy expenditure

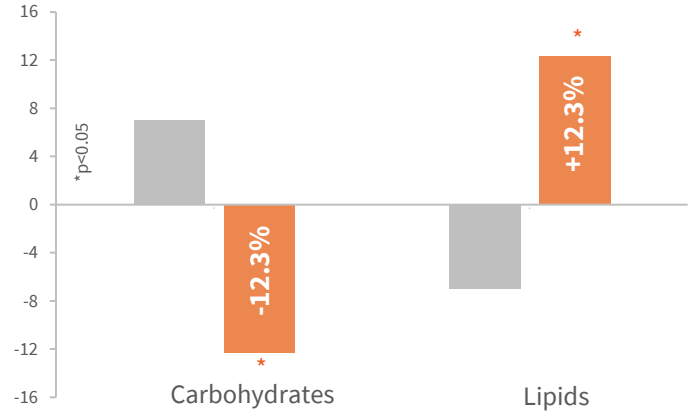
VO_2max variation (mL/kg/min)
W1-W8



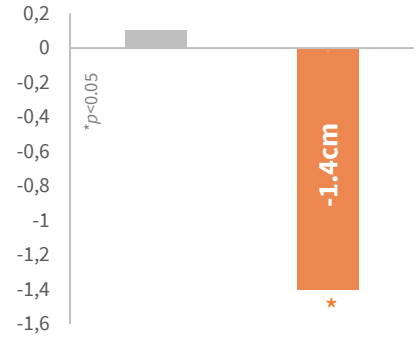
Heart rate reduction at VO_2max (bpm)
ΔW1-W8



Substrate-based variation of resting energy expenditure (%)
ΔW1-W8



Hip circumference reduction
(cm) W1-W8 – Sinetrol Active Living



VO_2max: marker of **endurance capacity**, characterized as the maximal oxygen uptake aptitude.

▶ Correlated with the ability of the mitochondria to **burn additional fat to sustain extra needs in energy.**

Increased part of lipids used to sustain energy expenditure.

Placebo
Sinetrol® Active living

KEY OUTCOMES

- Active weight management formula
- Scientific support of the core formula Sinetrol Xpur
- Proven mechanism of action: **adipose beiging benefits**
- Increase in **resting energy expenditure**
- Dedicated clinical study on subjects with a healthy BMI
- Provides weight loss benefits through a switch of substrate to fulfill energy needs when doing sports (privileges the use of lipids instead of carbs)
- Reduces hip circumference
- Increases markers of sports performance (Vo_2 max)
- **Clinical results & publications available upon request**

APPLICATIONS

CONCEPT NAME

Sinetrol® Active Living

COMPOSITION

Sinetrol Xpur or Sinetrol Xpur C
+ L-carnitine + caffeine + sodium chloride

ACTIVE COMPOUNDS

Flavanones (HPLC, 280 nm)	> 23%
L-carnitine (HPLC, 280 nm)	240 mg
Caffeine (HPLC, 280 nm)	148 mg

APPLICATIONS

Dietary supplements

OTHERS

GMO-free, gluten-free, no allergen



sinetrol®

Active Living

Fytexia

These statements have not been evaluated by the food and drugs administration. This product is not intended to diagnostic, treat, cure or prevent any disease.