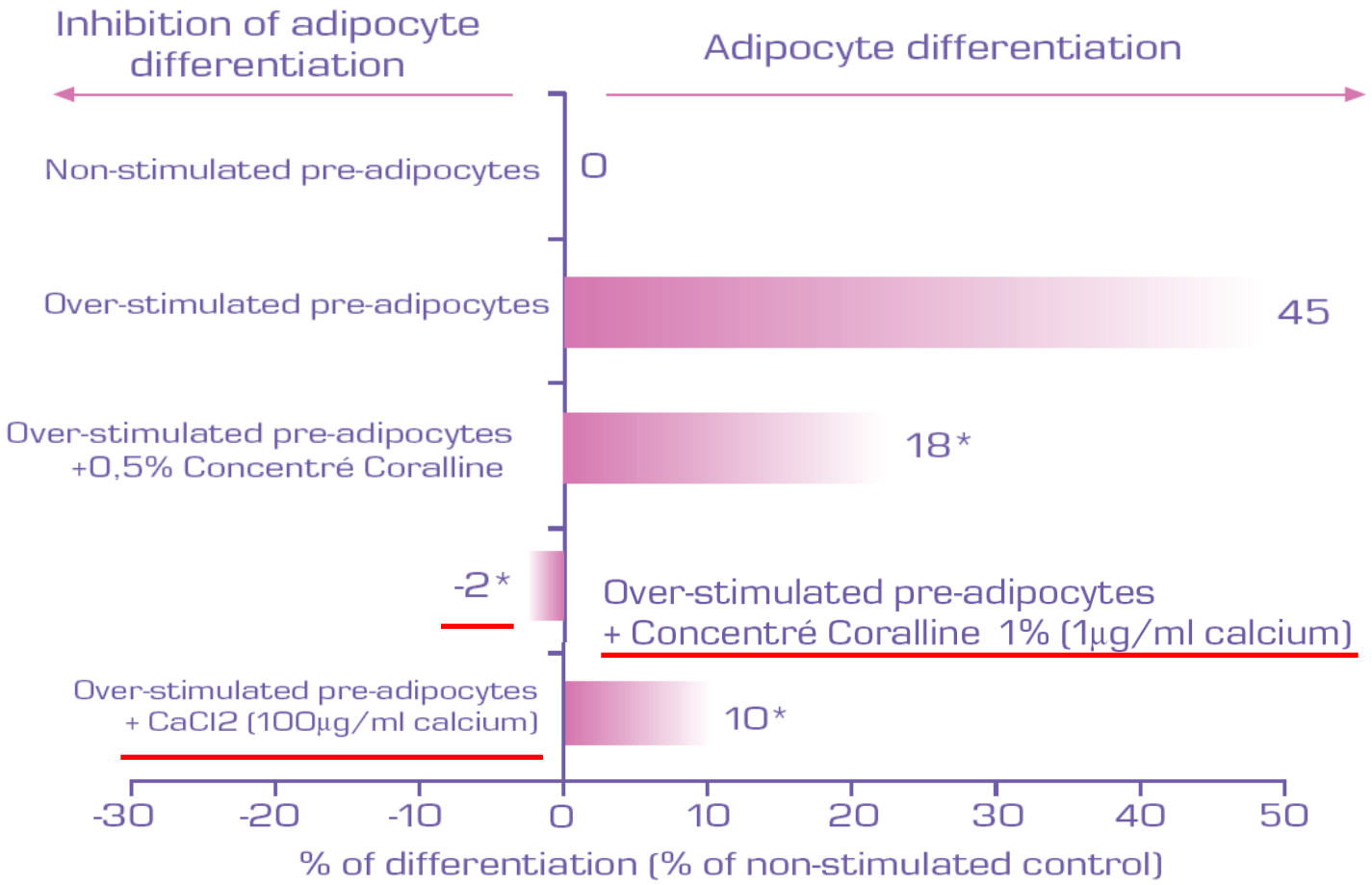
# *IN-VITRO* TEST: EFFECT OF CONCENTRE CORALLINE ON THE FORMATION OF NEW MATURE ADIPOCYTES (ADIPOCYTE DIFFERENTIATION)




Protocol:

Differentiation process induced in cultures of pre-adipocytes (over-stimulated pre-adipocytes) in the presence or absence of Concentré Coralline or CaCl2.

After 14 days, evaluation of the stage of differentiation by the capacity of adipocytes to store fatty acids (demonstration using oil red O staining)

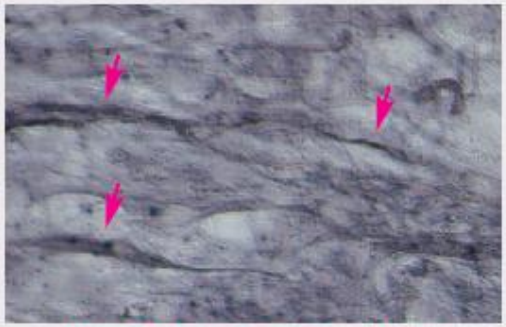
**p<0.05 student test t*

**Concentré Coralline, 1%, completely and significantly inhibits the differentiation of pre-adipocytes. Used at a concentration 100 times lower than that of mineral calcium, the calcium of Concentré Coralline is 10 times more effective.**

# IN-VITRO TEST : EFFECT OF CONCENTRE CORALLINE 1% ON COLLAGEN SYNTHESIS

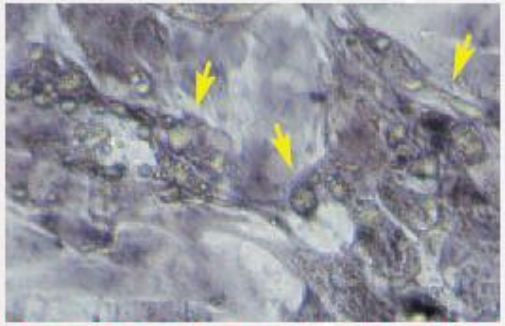
Protocol:
The differentiation process is induced in cultures of pre-adipocytes in the presence or absence of Concentré Coralline . After 14 days of culture, we determined the synthesis of collagen I using immunohistochemical labelling.

**Non-induced control**



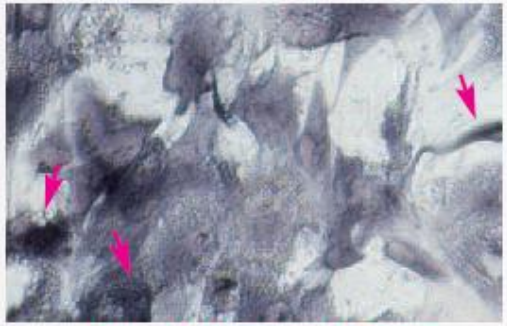
Pre-adipocytes with an elongated appearance similar to that of fibroblasts. Visualisation of collagen synthesis (red arrows).

**Induced control**



Rounded cells loaded with lipid droplets (yellow arrows) characteristic of mature adipocytes. Absence of collagen synthesis

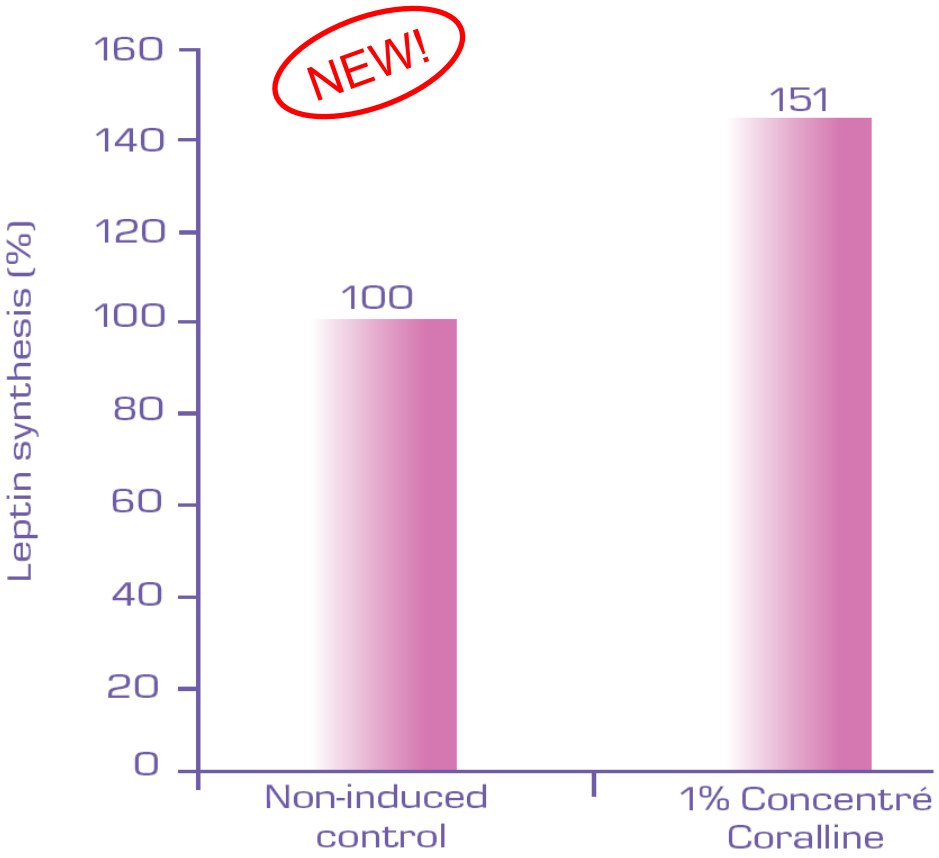
**1% Concentré Coralline**



Cellular morphology characteristic of pre-adipocytes, absence of lipid droplets, and collagen synthesis.

**By inhibiting the differentiation of pre-adipocytes into mature adipocytes, Concentré Coralline 1% promotes and enhances collagen I synthesis by pre-adipocytes**

# IN-VITRO TEST: EFFECT OF CONCENTRE CORALLINE 1% ON THE RELEASE OF LEPTINE




Protocol:
The differentiation process is induced in cultures of pre-adipocytes in the presence or absence of Concentré Coralline . After 14 days of culture, we determined the quantity of leptin secreted in the culture medium by the adipocytes.

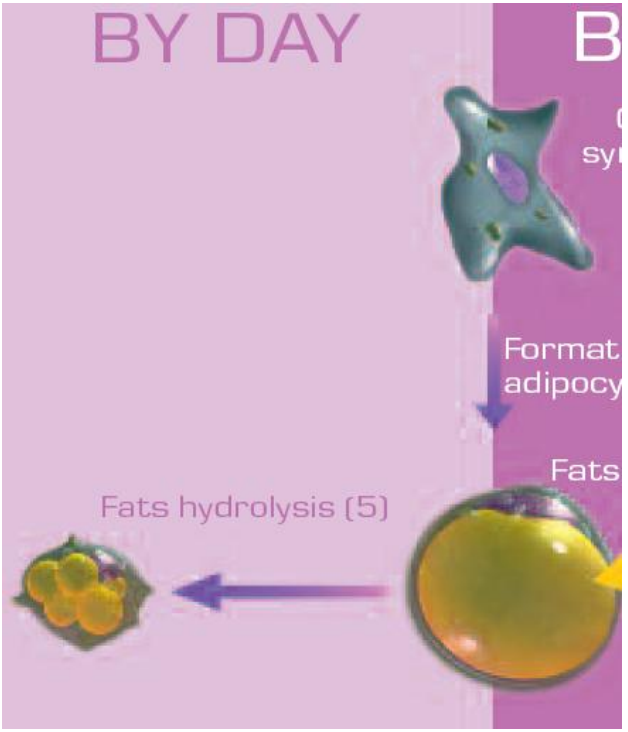
**Leptin is a cytokine that is secreted by the adipocytes between 10 O'clock in the evening and 3 O'clock in the morning.**

**Its release into adipose tissue is perceived as a signal of satiety by the adipocytes and is therefore directly accompanied by a decrease in fat storage.**

**Concentré Coralline 1% increases the synthesis of leptin by the adipocytes by 51%. Its action favours the limitation of the nocturnal storage of fats.**

# CONCENTRE CORALLINE

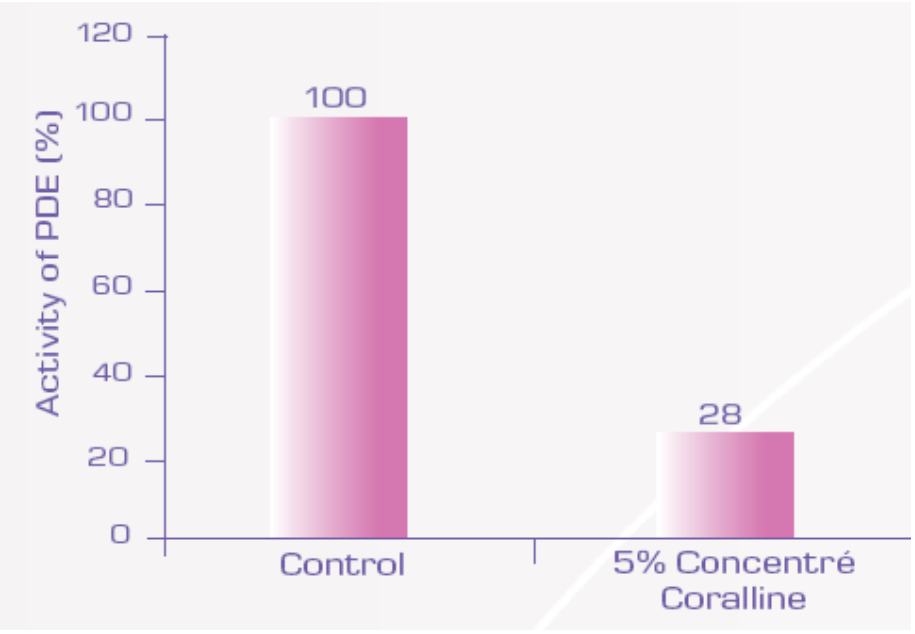
« BY DAY » EFFICACY



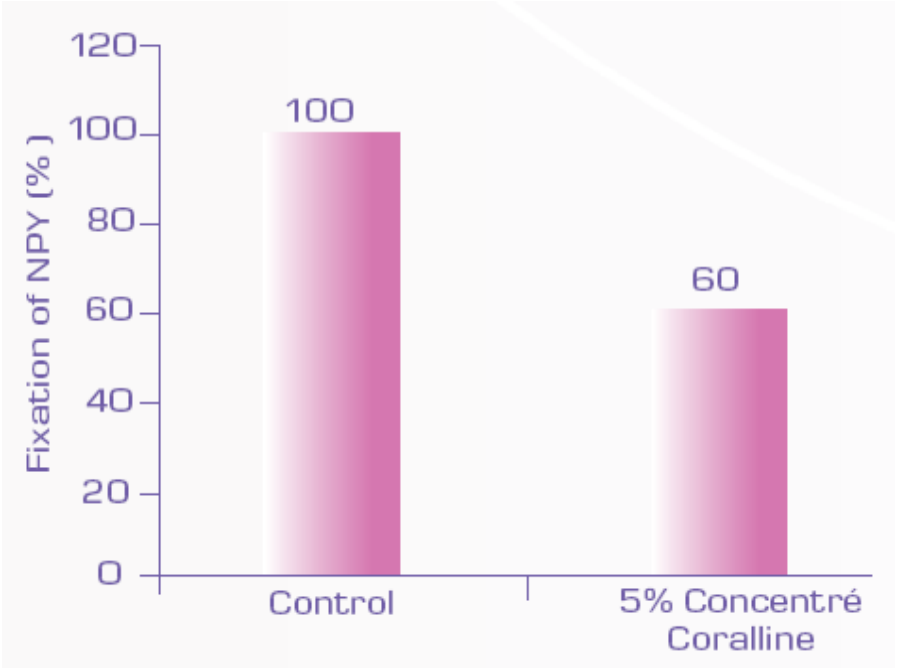
# IN-VITRO TEST: EFFECT OF CONCENTRE CORALLINE ON THE FACTORS THAT LIMIT FAT BURNING

Phosphodiesterase (PDE) and Neuropeptide Y (NPY) are both factors that inhibits the burning of fats (lipolysis).

**Inhibitory effect of Concentré Coralline on PDE**




**Inhibitory effect of Concentré Coralline on NPY**




**By decreasing the production of lipolysis inhibitors, Concentré Coralline stimulates fats burning**

# *Reveal…*

***Clinical tests***

# CLINICAL TEST: PROTOCOL

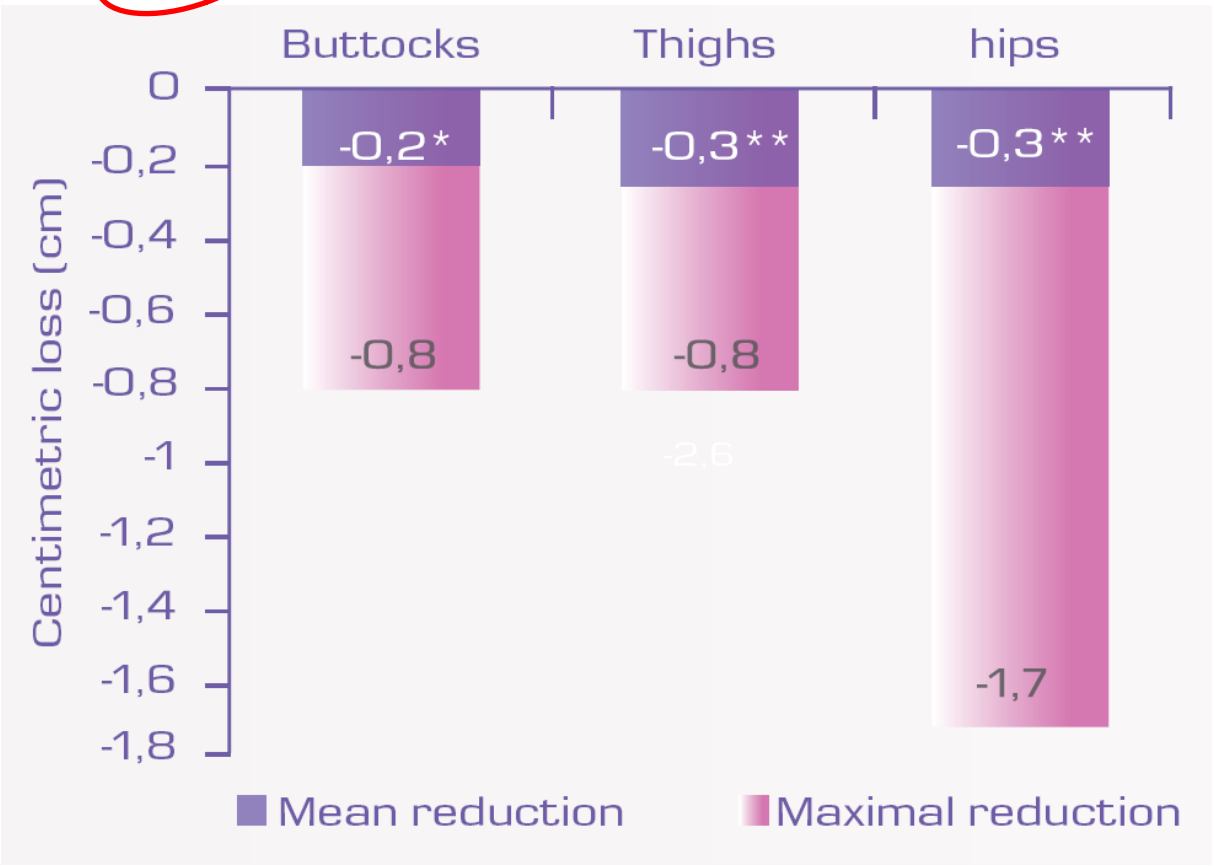
NEW!

- 17 volunteers aged between 35 and 55 years
- 1% Concentré Coralline
- Twice daily application for 28 days on the thighs, hips and buttocks

- Evaluation of centimetric loss
- Evaluation of the thickness of the adipose tissue by ultrasonography (ecografía)
- Measurement of the firmness of the skin by cutometry
- Evolution of the grade of the orange peel

# CLINICAL TEST: EFFECT OF CONCENTRE CORALLINE 1% ON CENTIMETRIC LOSS

NEW!




*p<0.05
**p<0.01 Student test t

**Buttocks (nalgas): up to -0.8cm**

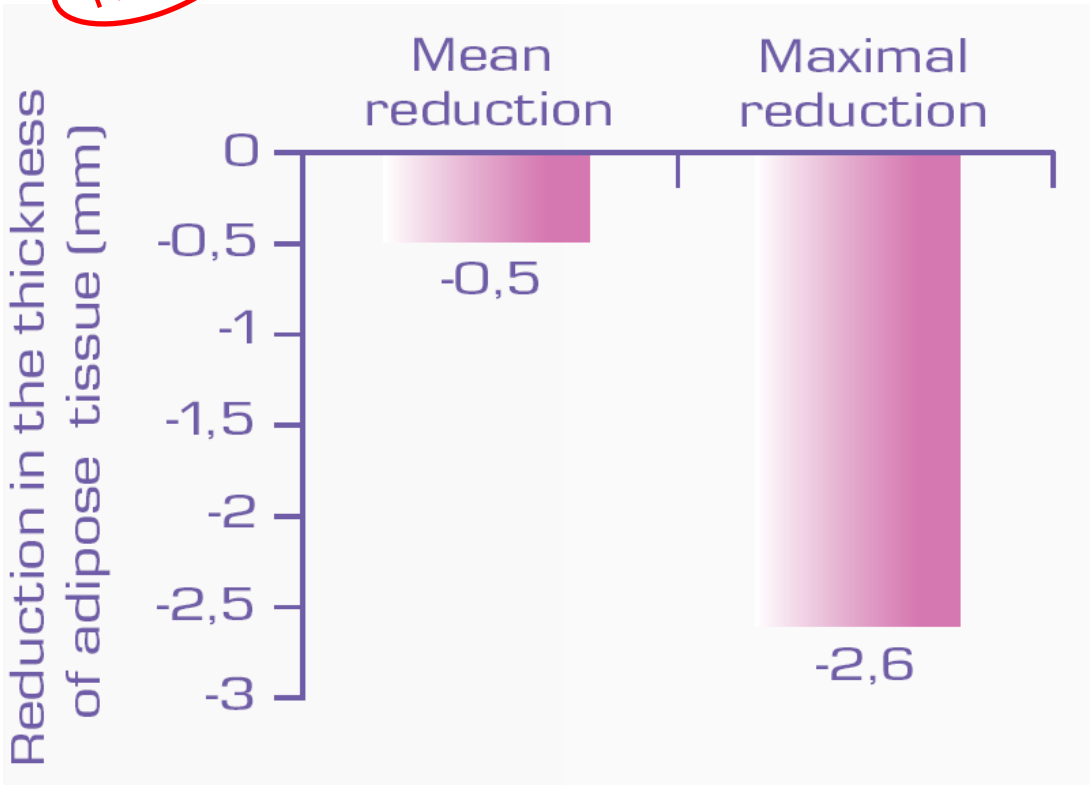
**Thighs (muslos): up to -0.8cm**

**Hips (caderas): up to -1.7cm**

**Concentre Coralline 1% significantly promotes centimetric losses on the buttocks, the thighs and the hips**

# CLINICAL TEST: EFFECT OF CONCENTRE CORALLINE 1% ON THE THICKNESS OF THE ADIPOSE TISSUE

NEW!




The measurements are made at the top of the cellulite bulge of one randomized thigh.

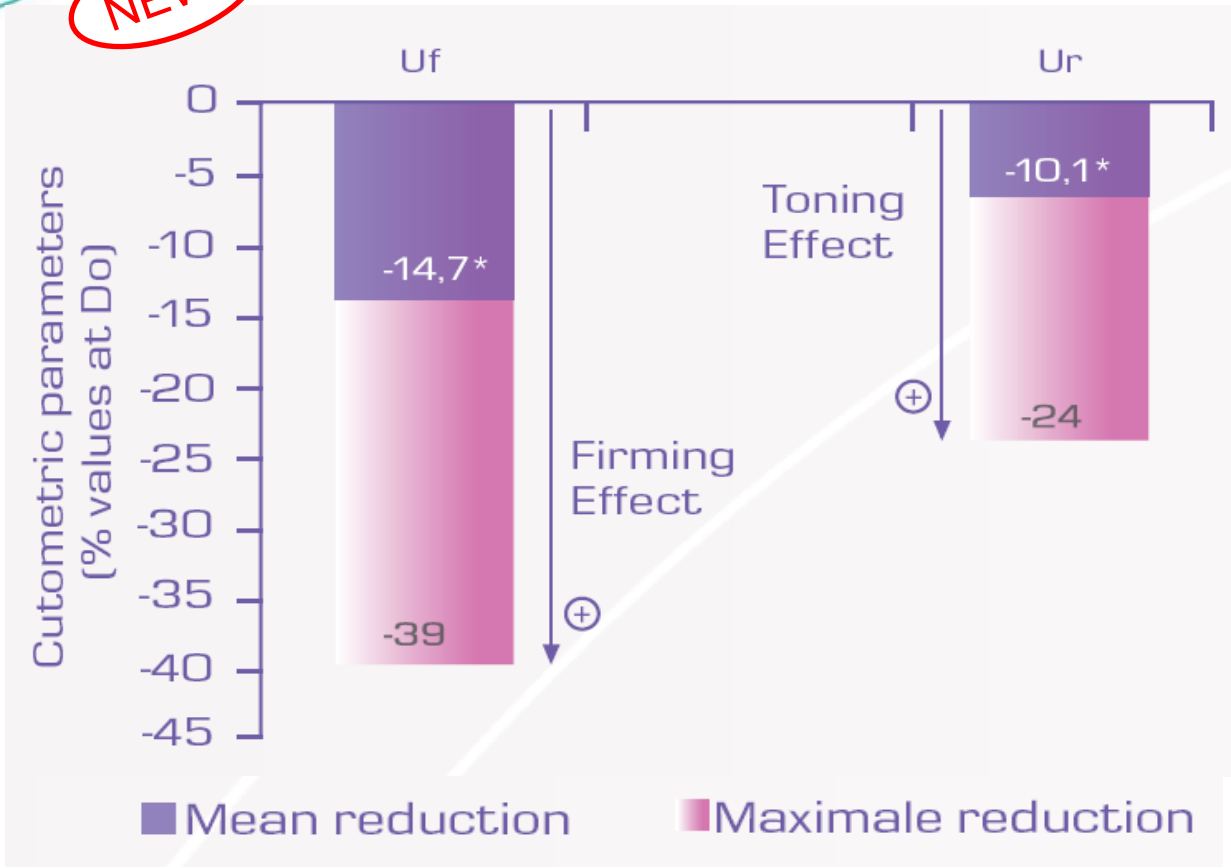
The ultrasonic measurement parameter studied is the adipose tissue thickness in mm.

A reduction in this parameter demonstrates a slimming effect of the product.

**Concentre Coralline 1% decreases the thickness of the adipose tissue**

# CLINICAL TEST: EFFECT OF CONCENTRE CORALLINE 1% ON THE FIRMNESS OF THE SKIN

NEW!




Protocol:
The cutometric method involves assessing the firmness (decrease in Uf parameter) and the tone (decrease in Ur parameter) of the tissues.

*p<0.05 Student test t

**Concentre Coralline 1% significantly increases the firmness and the tone of the skin**

# CLINICAL TEST: EFFECT OF CONCENTRE CORALLINE 1% ON THE GRADE OF ORANGE PEEL

NEW!



**Concentre Coralline 1% visibly erases the orange peel aspect of cellulite**

# CONCENTRE CORALLINE CHRONOBIOLOGICAL CONTOURING

- BY NIGHT Concentré Coralline:
  - Inhibits the formation of mature adipocytes
  - Limits the nocturnal storage of fats
  - Stimulates collagen synthesis
- BY DAY Concentré Coralline:
  - Promotes fats burning
- AFTER 28 DAYS Concentré Coralline:
  - Significantly stimulates centimetric loss on buttocks, thighs and hips
  - Decreases the thickness of adipose tissue
  - Significantly improves the firmness and the tone of the skin
  - Visibly erases orange peel aspect

# CONCENTRE CORALLINE

| Available versions | Preservatives | Formulation |
|---|---|---|
| Concentre Coralline | Parabens | 1 % |
| Concentre Coralline P | Phenoxyethanol | 1% |
| **Concentre Coralline G** | **Preservative free, Ecocert approved** | **2%** |