

Care  
Creations™

Slim-Excess®

by **Beauty Creations**

The face and body designer

 **BASF**

The Chemical Company



# Slim-Excess®

## Demonstrated reshaping efficacy on face and body

Weight changes have visible effects on the shape of the face and body. Whether due to hormonal imbalances or unhealthy lifestyles, these changes contribute to the formation and storage of fat not only in our body but also in our face. This fat is stored in the forehead, temples, cheeks and around the mouth.

A harmonious face is perfectly balanced with smooth, round contours and a well-defined jaw line. Excess fat, however, leads to slackness in the oval of the face and the development of a double chin.



**Fig. 1** – Ageing of the face with the development of jowls and a double chin.

Beauty Creations has developed a reshaping active ingredient with proven efficacy on both the face and body. Inspired by studies conducted in the field of obesity<sup>2</sup>, we have targeted two compounds that are found in abnormally high concentrations in obese subjects: spermine and spermidine.

These two compounds take a part in many mechanisms in fat metabolism: activation of lipogenesis, inhibition of lipolysis and activation of preadipocyte differentiation (increased fat-storing potential).

### Slim-Excess®, the slimming solution

Beauty Creations has developed a unique active ingredient blocking these two polyamines for a revolutionary slimming effect. Acting as a molecular trap, the sulfo-carabioses of Slim-Excess® have a high affinity with spermine and spermidine for optimal inhibitor effect.

#### Cosmetic use

Daily treatment that helps redesign and reshape the face and body.

V-shape contouring.

#### Cosmetic properties

Lipogenesis inhibitor.

Lipolysis activator.

Inhibitor of preadipocytes proliferation (increased fat-storing potential).

#### Origin

Slim-Excess® is a red algae hydrolyzate



<sup>1</sup> C. Kron Nouv. Dermatol. 2006

<sup>2</sup> Jamdar S, Cao FW, Samaniego E. Enzyme and protein 1996 ; 49 : 222-230

# *In vitro* studies

Slim-Excess<sup>®</sup>, three slimming actions combined for an optimal efficacy

## Our aim

Assess the efficacy of Slim-Excess<sup>®</sup> at 3% to positively activate the lipidic metabolism on a culture of adipocytes obtained by abdominal biopsy. Measurements were done vs. untreated control.

## Conclusion

Slim-Excess<sup>®</sup> optimizes the lipidic metabolism acting simultaneously, *in vitro*, on the 3 associated biological mechanisms: lipolysis, lipogenesis and preadipocytes proliferation.

### Slim-Excess<sup>®</sup> enables a 87% stimulation of lipolysis

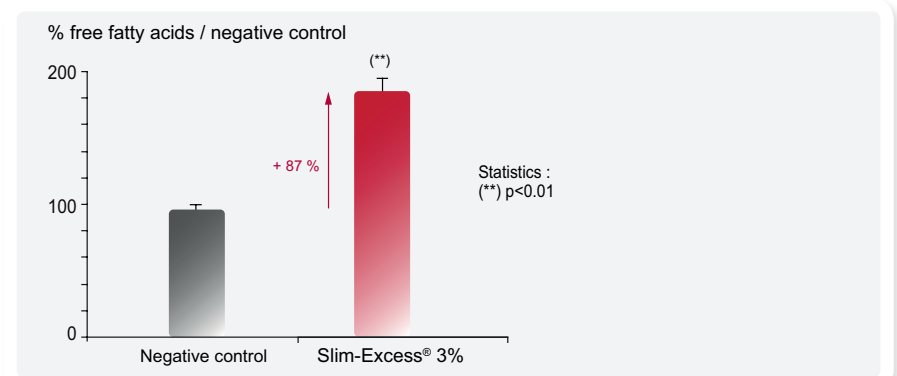


Fig. 1 – Effects of Slim-Excess<sup>®</sup> on the release of free fatty acids by human adipocytes as compared to an untreated control group.

### Slim-Excess<sup>®</sup> enables a 79% inhibition of lipogenesis

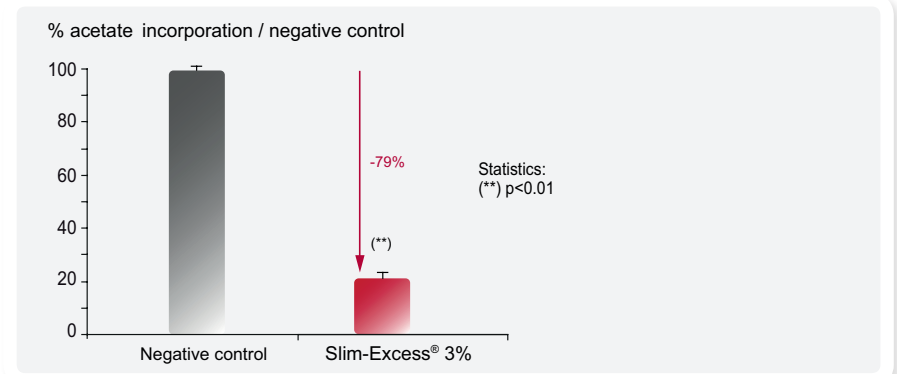


Fig. 2 – Effects of Slim-Excess<sup>®</sup> on the incorporation of acetate by human adipocytes as compared to an untreated control group.

### Slim-Excess<sup>®</sup> inhibits the preadipocytes proliferation with a higher efficacy than caffeine

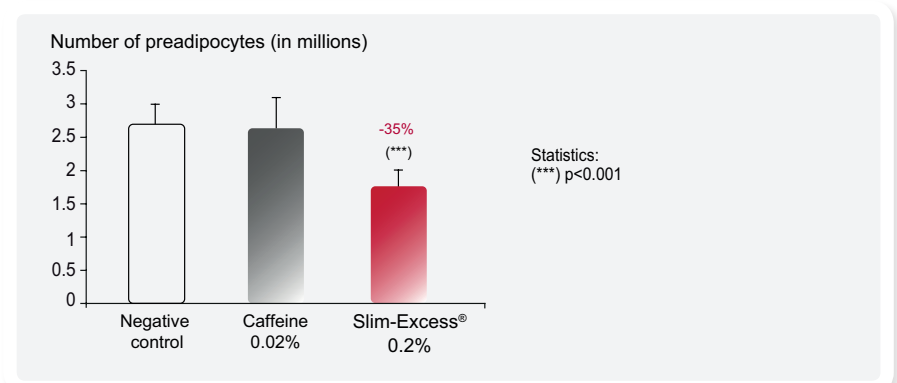


Fig. 3 – Number of preadipocytes after 7 days in a culture medium.



# In vivo studies on the face

Slim-Excess<sup>®</sup>, redesigns the face from four weeks

## Our aim

The clinical study of Slim-Excess<sup>®</sup> applied at 2%\* on the face aimed to demonstrate its reshaping effect (reduced double chin and redesigned oval of the face).

The efficacy of Slim-Excess<sup>®</sup>, when used twice daily on the face and neck by a panel of 49 Asian volunteers for three months, was evaluated. An instrument evaluation of the «chin/cheek» inflexion angle and of the double chin area was performed as well as an assesment of the biomechanical properties of the skin (elasticity).

## Instrumental



Fig. 4 – Measurement of the cheek/chin angle of inflexion.

## Results

The statistically significant increase of the cheek/chin angle after Slim-Excess<sup>®</sup> treatment by +1.5% (4 weeks), +1.3% (8 weeks) and +2.2% (12 weeks) corresponds to a decrease of the low-face sagging.

The number of volunteers with positive effect represents 82.6% after 12 weeks of treatment.

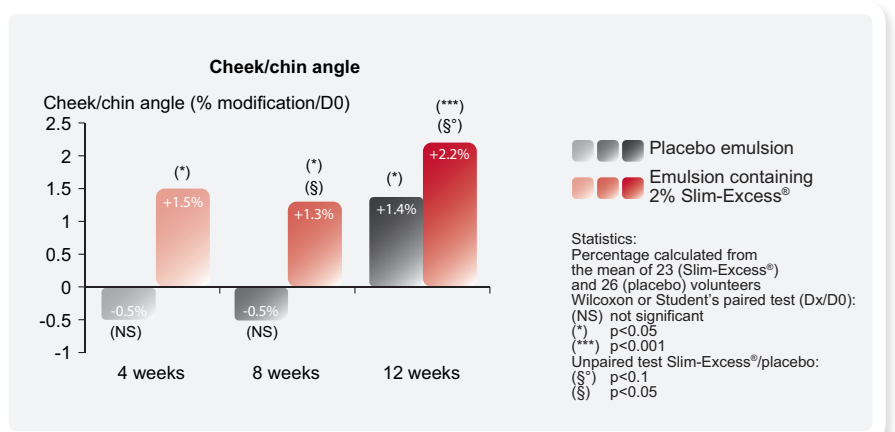


Fig. 5 – Effect of Slim-Excess<sup>®</sup> at 2% vs placebo on cheek/chin inflexion angle. Macrophotographs analysis. Percentage of modification comparatively to D0.

## Conclusion

Slim-Excess<sup>®</sup> redesigns the contours of the face for a reshaped oval in four weeks.

## Results

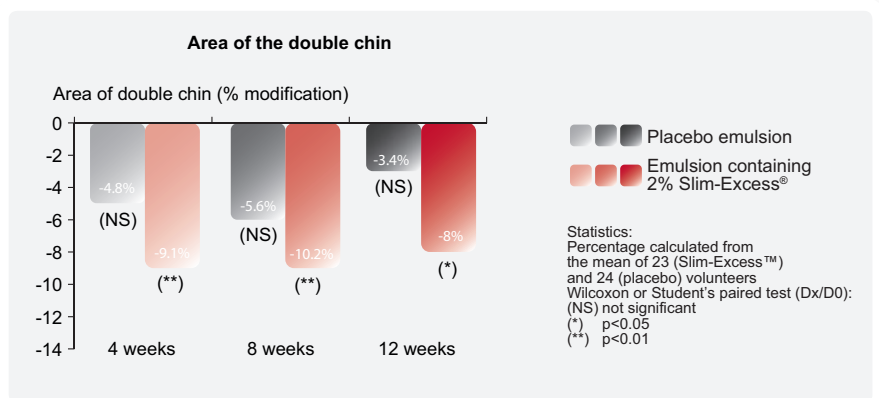
Slim-Excess® visibly helps to reduce the double chin area: the average reduction is 10.2% after eight weeks of treatment, and may reach -40% in some volunteers after twelve weeks.

These results, which were obtained by instrumental measurements, can clearly be observed on the pictures of volunteers taken before and after twelve weeks of treatment.

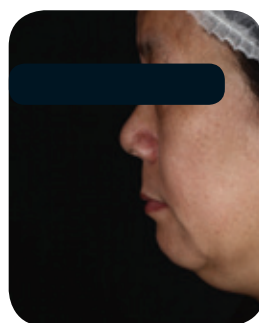
## Conclusion

Visible reduction of double chin area in 4 weeks using Slim-Excess®.

## Clinical evaluation



**Fig. 6** – Effect of Slim-Excess® at 2% vs placebo on the area of double chin. Macrophotographs analysis. Percentage of modification comparatively to D0.

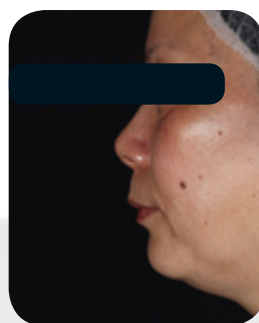


Volunteer 1  
before treatment



Volunteer 1 after  
12 weeks of treatment

**-23% double chin area**



Volunteer 2  
before treatment



Volunteer 2 after  
12 weeks of treatment

**-40% double chin area**

For a complementary action, Slim-Excess<sup>®</sup> contributes to improve skin elasticity

### Our aim

The biomechanical parameters of the skin were monitored by a contactless evaluation method: Tonoderm<sup>™</sup>. The Tonoderm<sup>™</sup> instrument directs an air flow with given force onto the skin, causing local deformation of the skin tissue. This deformation is recorded and analyzed with a laser sensor.

The Cr/Yf ratio expresses the elastic/viscous behavior of the skin. A reduction in the value of this ratio indicates a reduction in the viscosity of the skin and an improvement in elasticity.

### Results

Significant reduction in the Cr/Yf ratio in twelve weeks. Slim-Excess<sup>®</sup> improves skin elasticity for combined action with the loss of fat volume.

### Conclusion

After twelve weeks, Slim-Excess<sup>®</sup> visibly improves skin elasticity with greater effectiveness than placebo.

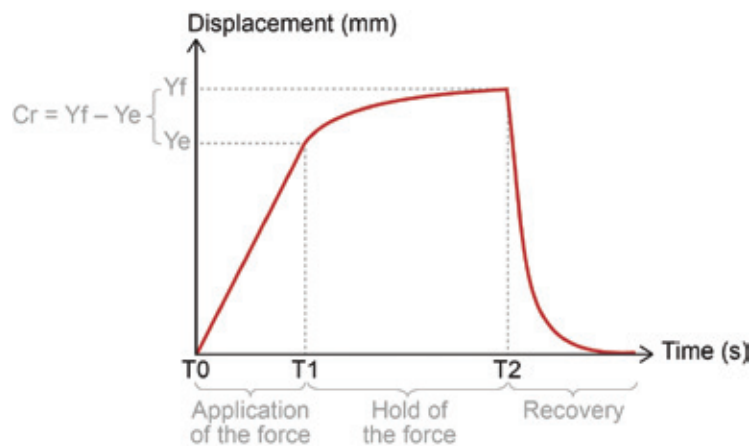


Fig. 7 – Example of the skin deformation curve obtained with Tonoderm<sup>™</sup>.

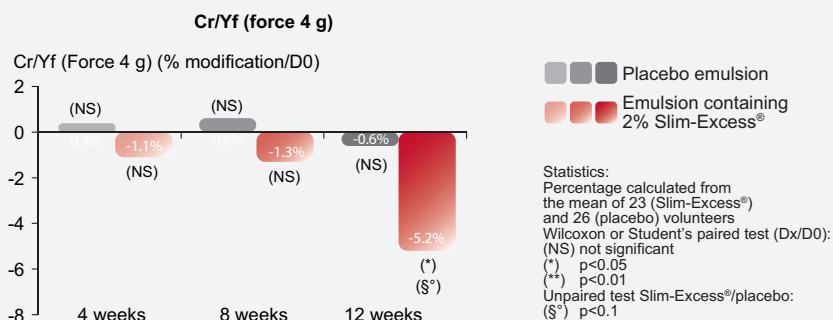


Fig. 8 – Effect of Slim-Excess<sup>®</sup> at 2% vs placebo on skin biomechanical properties (Cr/Yf) ratio. Percentage of modification comparatively to D0.

### Slim-Excess<sup>®</sup>:

- helps to reshape the oval of the face in four weeks,
- helps decrease the double chin area,
- contributes to improve skin elasticity,
- shows a significantly greater efficacy than placebo.



# In vivo studies on the body

Slim-Excess® reshapes the silhouette from 2 weeks

## Our aim

The clinical study on Slim-Excess® applied to the body aimed to demonstrate its anti-cellulite and slimming effectiveness and its synergy with caffeine. A 3% formulation of Slim-Excess® was applied twice daily on the thighs of a panel of volunteers for two months.

## Clinical scoring on cellulite

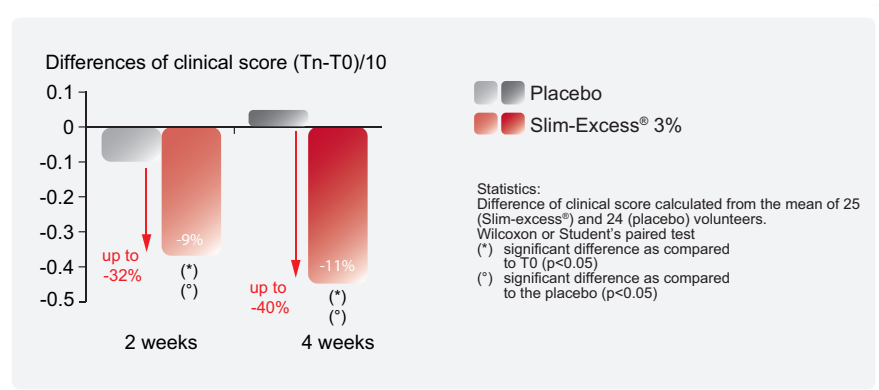


Fig. 9 – Decrease in clinical scores for cellulite on thighs treated either with Slim-Excess® 3% or with the placebo.

## Results

A decrease in the scores given by the expert clinician showed an improvement in cellulite over time. After 2 and 4 weeks of application, the clinical expert noted a significant decrease in cellulite on those thighs treated by Slim-Excess® 3%, respectively -9% and -11%.

At 2 and 4 weeks, respectively 68% and 75% of the subjects showed an improvement in the quality of their skin.

## Conclusion

Slim-Excess® contributes to reduce cellulite in 2 weeks.





## Our aim

Measurements of the volume of a section of the thigh, which was reconstructed in 3D, were carried out prior to product application and after 4 weeks of product application.

## Results

The comparison of the volume of the thighs over time showed a significant decrease of  $-16 \text{ cm}^3$  in the thighs treated with Slim-Excess® 3% (and up to  $-67 \text{ cm}^3$ ).

## Our aim

The slimming effect of Slim-Excess® was evaluated through the loss in centimeters of thighs circumference. The effect of Slim-Excess® combined with caffeine was also evaluated.

## Results used alone

The average loss in cm around the thighs of the volunteers who applied Slim-Excess® 3% alone was  $-0.6 \text{ cm}$  after 4 weeks of treatment (fig. 11).

## Results combined with caffeine

After 4 weeks of treatment, the results on thighs circumference were multiplied by 4, when combined with caffeine compared to caffeine alone (fig. 12).

## Conclusion

Slim-Excess® contributes to slim down the thighs in 4 weeks.

## Measurements of the volume of the skin over the thighs using fringe projection

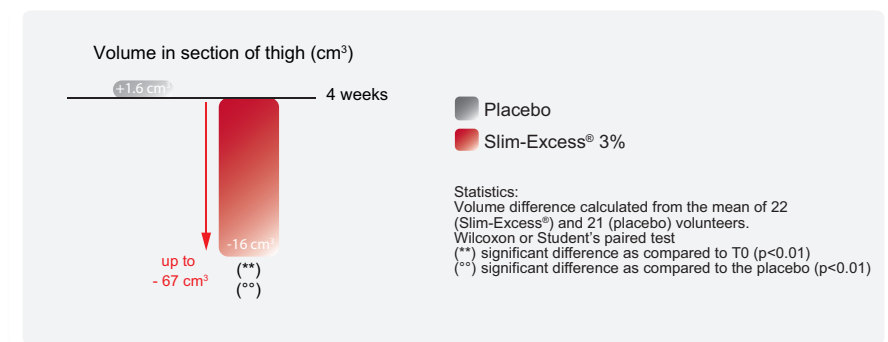


Fig. 10 – Decrease in volume of the section of thighs treated either with Slim-Excess® 3% or with placebo.

## Measurements in centimeters of the thighs circumference

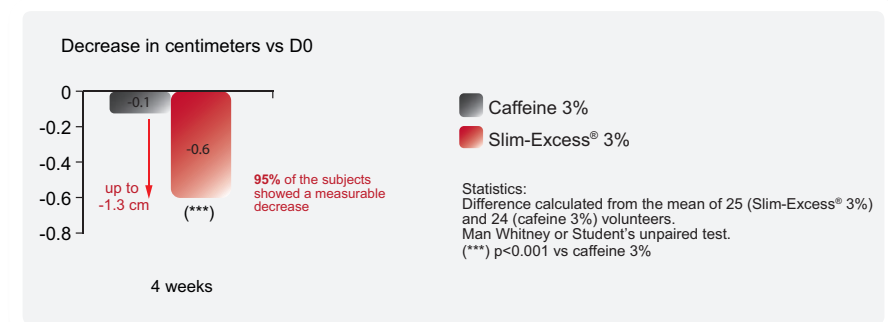


Fig. 11 – Differences in centimetric measurements taken from around the volunteers's thighs treated either with Slim-Excess® 3% or with caffeine 3%.

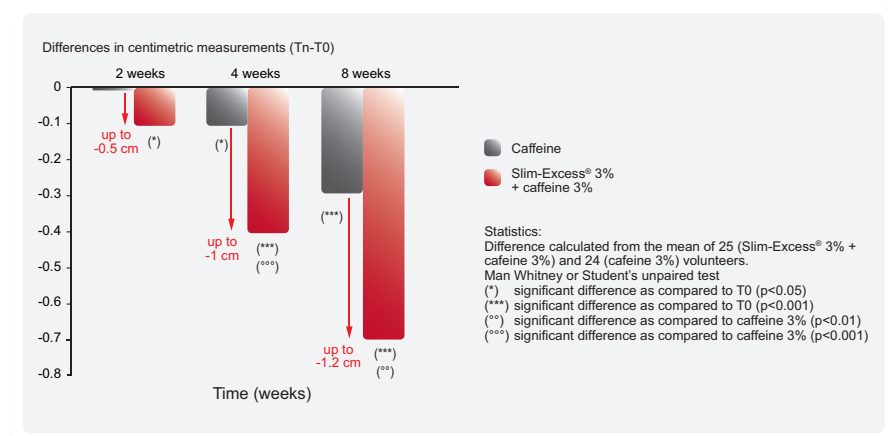


Fig. 12 – Efficacy of Slim-Excess® when combined with caffeine on thigh circumference.

## Slim-Excess®:

- contributes to reduced cellulite in 2 weeks,
- contributes to slim the thighs in 4 weeks,
- shows a greater efficacy than caffeine.

# Slim-Excess®

## Origin / Description

Slim-Excess® is a red seaweed hydrolyzate based on sulfo-carrabioses units.

## Summary file

<b>Slim-Excess®</b>	Reference A00073
<b>Regulatory data</b>	INCI: Water, Butylene Glycol, Pentylene Glycol, Sodium Chloride, Hydrolyzed Rhodophyceae Extract, Xanthan Gum China: Each component listed in - «International Cosmetic Ingredient Standard Chinese name» (2007 and 2010 versions) - «Inventory of Existing Cosmetic Ingredient in China» (IECIC 2014) CAS# 7732-18-5, 107-88-0, 5343-92-0, 7647-14-5, 157524-58-8, 11138-66-2 EINECS/ELINCS# 231-791-2, 203-529-7, 226-285-3, 231-598-3, polymer, 234-394-2
<b>Appearance</b>	Clear liquid to opalescent
<b>Formulation data</b>	Concentration of use: 1 to 3% Solubility: dispersible in water Incorporation method: Slim-Excess™ can be incorporated into formula at room temperature, not affected by normal cosmetic processing. Optimal pH: 4 - 8
<b>Storage</b>	In its original packaging and protected from moisture, at 10 - 30°C.
<b>Shelf life</b>	12 months
<b>Patent family</b>	FR2917971B1, US8153611B2, US8604001B2 Under examination in EP, BR, JP, KR and CN





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#### Credits

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Global Edition, March 2014

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