

APOBIO Slim

INCI: AQUA, LACTOBACILLUS FERMENT, BENZYL ALCOHOL, ETHYLHEXYLGLYCERIN.

A postbiotic produced by *Lactobacillus* with **anti-cellulite properties**.

It aids in **breaking down fat cells** and inhibiting adipocyte formation.

It helps you **slim down** and **reduce local fat deposits**.



Ideal for massage gel, anti-cellulite cream, and slimming cream formulations.



Recommended usage levels: 3%

Probiotic microorganisms, such as *Lactobacillus*, produce molecules called postbiotics which have beneficial properties. These substances bring numerous benefits to the skin, allowing for the use of biotechnology to develop innovative and sustainable ways to promote beauty.

In addition, APOBIO Slim has specific anti-cellulite properties. Thanks to its lipolytic effects, it improves skin texture and makes cellulite less visible, while also improving skin smoothness and hydration.



Ex vivo trial - Positive effects of APOBIO Slim on genes linked to skin hydration and adipogenesis inhibition.

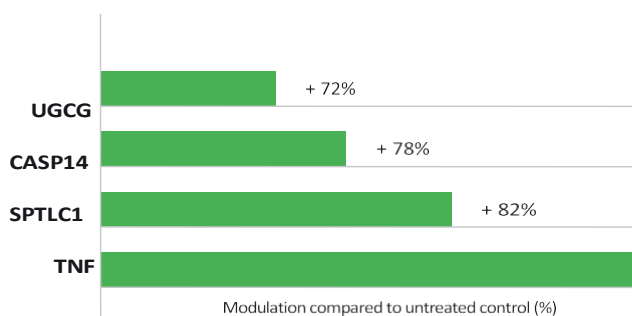


Chart 1: Evaluation of the effects of APOBIO Slim on the gene expression of UGCG, CASP14, SPTLC1 and TNF on ex vivo skin model. The results show that APOBIO Slim stimulates gene expression for genes related to skin hydration and for the TNF gene related to inhibition of adipogenesis.



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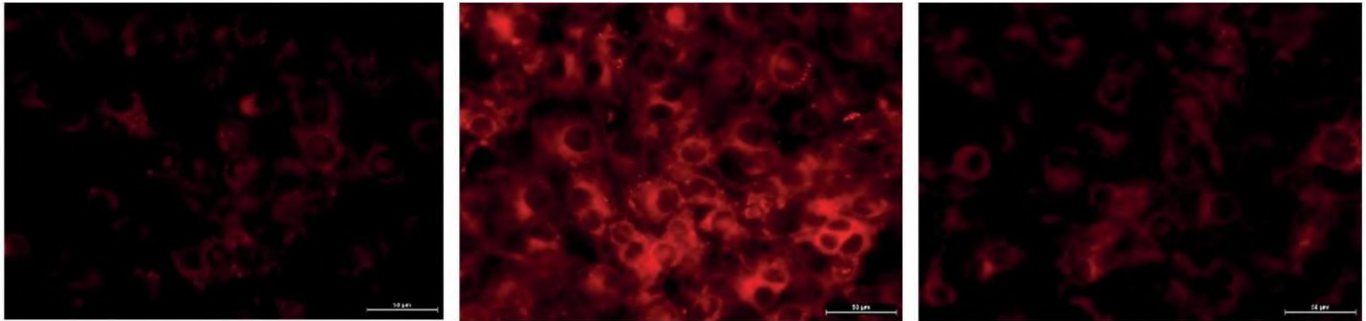
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In vitro trial - Inhibition of adipogenesis

To verify interference of the product with the cell differentiation and adipocyte formation process, undifferentiated cells were induced to undergo adipogenesis and were then treated with APOBIO Slim.

To evidence formation of adipocytes, the cells were stained with the AdipoRed.



Control Sample
Without induction of
adipogenesis

Control Sample
With induction of
adipogenesis

Control Sample
With induction of
adipogenesis
+ APOBIO Slim

The study shows that APOBIO Slim inhibits cell differentiation during adipogenesis.



In vitro trial - Lipolytic effectiveness

Evaluation of expression of adipose triglyceride lipase genes in cells differentiated into adipocytes:

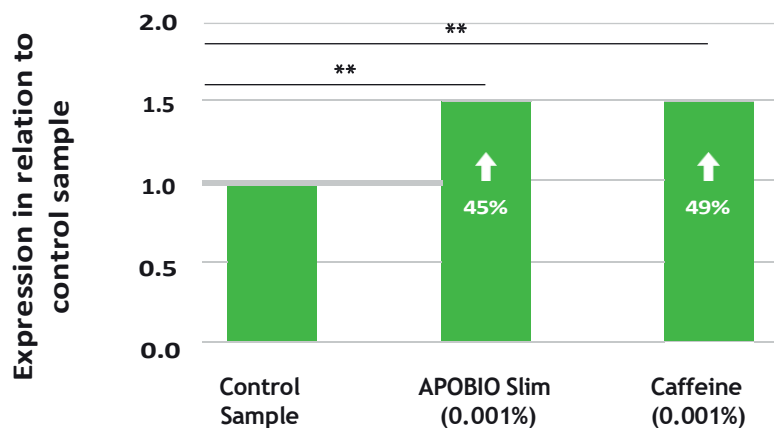


Chart 2: Relative expression of the adipose triglyceride lipase gene was determined using quantitative RT-PCR in cells treated with the investigated products or untreated cells. The horizontal bars connect the groups that exhibit statistical differences (**p<0.01).

These results show the potential ability of APOBIO Slim to accelerate the lipolysis process, promoting fat burn within the cells and reducing cellulite.

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Clinical trial - Anti-cellulite effects of APOBIO Slim on skin

Clinical trial involving fifteen women ranging from 18 to 65 years of age, with cellulite grades ranging from I to V:

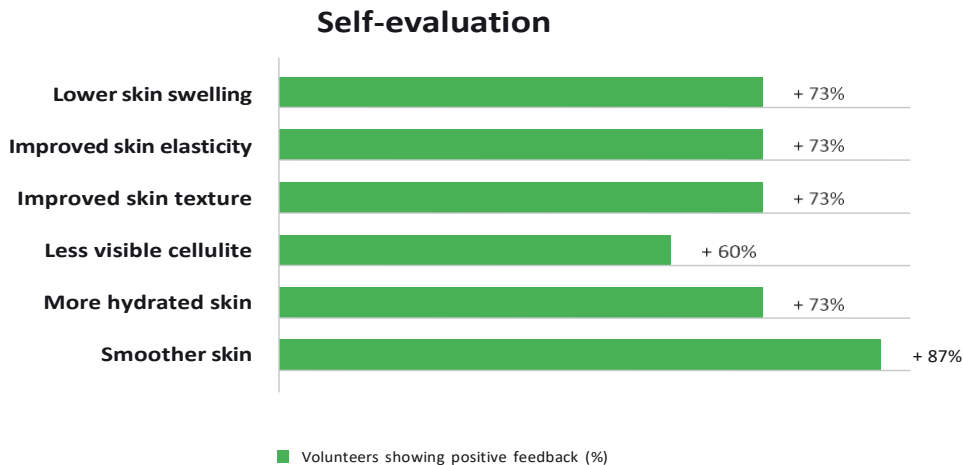


Chart 3: Study carried out to evaluate volunteers' perception of the effectiveness of APOBIO Slim 40 days after they started using the product on cellulite-affected areas.

The volunteers were evaluated using Celluvision plates 40 days after they had started using the product. This technique is based on contact thermography: the user of plates coated with encapsulated liquid crystals to detect cellulite grades and allow for application of non-invasive methods of treatment.

Table 1: Evaluation using Celluvision

Number of	D0	D40
3	Grade I	Slight improvement
3	Grade I	No improvement
2	Grade II	Significant improvement
2	Grade II	Slight improvement
2	Grade II	No improvement
1	Grade III	Significant improvement
1	Grade III	No improvement
1	Grade IV	Slight improvement

The Celluvision evaluation showed that 60% of participants exhibited significant improvement after using APOBIO Slim.

According to these results, we can say that APOBIO Slim improves the appearance of cellulite-affected areas and helps reduce fat and body measurements. It also makes skin smoother and more hydrated.

Anthropometric Evaluation

Reduction in body measurements (centimeters)
1.35 in 80% of the group.

Reduction in fat volume:
1.53 in 73,3% of the group.

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