



# SLIM - EXCESS®

Gets the face and body into shape



Slim-Excess® is a hydrolysate of the red alga Rhodophyceae. The active ingredient was developed on the basis of adiposity studies. The studies focussed on two organic compounds (polyamines) that are detectable in unusually high concentrations in adipose patients: spermine and spermidine. These two compounds are involved in many processes in fat metabolism. These include triggering of fat production (lipogenesis), inhibition of fat splitting (lipolysis) and activation of the differentiation of precursor fat cells (pre-adipocytes).

An active ingredient that is able to inhibit the activity of spermine and spermidine can have strongly fat-reducing properties. Computer-aided molecular modelling has identified molecules whose structure allows them to form complexes with spermine and spermidine and thereby deactivate them.

Sulfo-carrabiose has proven the most suitable. A hydrolysate of the red alga Rhodophyceae is rich in this special disaccharide and is excellently suited to anti-cellulite and facial contouring applications.

Once the principles of action were explained in vitro, several in-vivo studies showed significant, perceptible effects in the area of face and body contouring.

After applying a formulation containing 3% Slim-Excess®, a visible reduction of cellulite and a significant reduction of thigh circumference versus placebo was demonstrated in a clinical trial. In another direct comparison of Slim-Excess® versus a caffeine-containing formulation, a significant reduction in thigh circumference was measured after application of the active ingredient.

**1. The tissue-tightening and anti-cellulite properties of the active Slim-Excess® were already visible on volunteers' thighs after 4 weeks of application.**



**Fig 1: Clinical trial, 49 female subjects, twice daily application of a 3% Slim-Excess® formulation. Clinical evaluation of cellulite appearance on the thighs.**



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Furthermore, the biomechanical properties of the skin were evaluated in the facial area and measurements taken of the change in facial contour (from U-shape to V-shape). A visible reduction in double chin size was observed after treatment with the active ingredient.

## 2. Slim-Excess® tightens the facial contours after 4 weeks of application and reduces the double chin:



**Cheek/chin: 8.7% improvement**



**Double chin area: 23% reduction**

**Fig 2: Clinical trial, 49 female subjects (>45 years of age), twice daily application of a 2% Slim-Excess® serum.**

### **Slim-Excess® A00073**

**INCI:** Aqua, Butylene Glycol, Pentylene Glycol, Sodium Chloride, Hydrolyzed Rhodophycea Extract, Xanthan Gum

**Preservatives:** None

**Appearance:** Clear to opalescent liquid

**Application concentration:** 1–3%

**Slim-Excess® A00073** is a trademark of BASF Care Creations

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