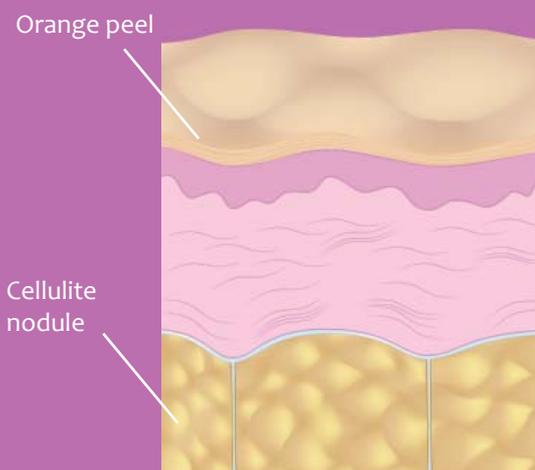




RENOVENZYME®PB

Gentle Enzymatic Degradation of Cellulite Nodule and Immediate Reduction of Orange Peel Appearance



No irritations and no side effects for the skin

Definition: Active ingredient based on a micro-emulsified mixture of stabilized Collagenases. The Human Collagen high specific protease was obtained through biotechnology by fermentation of *Clostridium histolyticum*.

INCI name: Peg-8 Caprylic/Capric Glycerides (and) Aqua (and) Polyglyceryl-3 Dioleate (and) Butylene Glycol (and) Isostearyl Isostearate (and) Ethoxydiglycol (and) Tris (Hydroxymethyl) Aminomethane (and) Calcium chloride (and) r-Clostridium Histolyticum Collagenase (and) Methyl nicotinate.

Preservative-free

GMO-free

Animal testing-free

Appearance: Colorless oily liquid.

Active Molecule: Col H and Col G Collagenases.

Properties: RENOVENZYME®PB selectively breaks up defective Collagen around Fat Cells, responsible for cellulite nodule and orange peel, by a specific collagenolytic activity. Consequently, it improves the appearance of visible cellulite by smoothing dermo-hypodermal junction irregularities, and activating lymphatic drainage.



Characteristics: RENOVENZYME®PB is a gentle natural alternative to conventional invasive techniques such as cosmetic surgery and mesotherapy.

Applications: Cosmetic treatment of fibrous cellulite and silhouette refining preparations.

Dosage: 0.5%-1.0%

Formulation: RENOVENZYME®PB can be incorporated in all types of body care products for treating cellulite and to achieve a fine silhouette. Suitable for O/W and W/O emulsions, as well as for gels and gel-creams.

Handling: Incorporate in the final formulation, by dispersing during the cooling stage at a temperature of 40°C or less under a slight agitation with helix. Follow stirring gently until obtaining a completely homogeneous mixture.



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Claim Substantiation

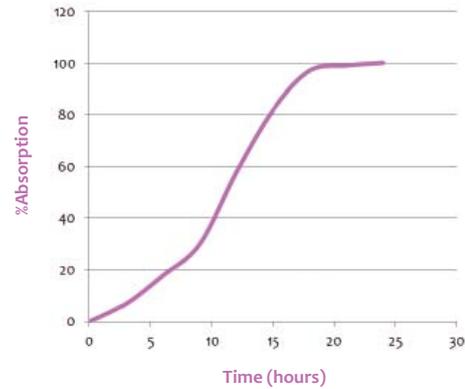
In vitro efficacy

SKIN PENETRATION

In order to study the in vitro skin penetration efficacy of RENOVENZYME®PB, an analysis of the active's percutaneous absorption was conducted in Franz diffusion cell system. The test was carried out using a membrane with a pore size of 0.22 µm and equivalent to cornea extract.

Results show that RENOVENZYME®PB is completely absorbed up to the deepest skin layers after just 19 hours from application.

Percentage of Percutaneous Absorption of RENOVENZYME® PB



In vivo efficacy

ANTI-CELLULITE AND SLIMMING EFFECT

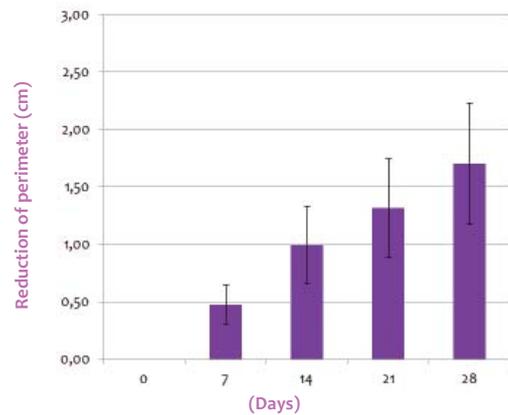
Protocol: A panel of 16 volunteers applied a placebo cream on one of the thighs and abdomen and a cream containing 1% of RENOVENZYME®PB on the other side once a day for 28 days.

Monitoring by measuring of circumference reduction (cm) weekly.

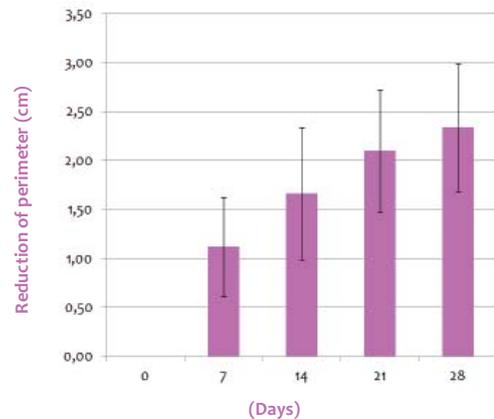
Results: RENOVENZYME®PB shows

- a general reduction of the orange peel appearance in the 100% of the examined cases.
- a statistically significant decrease in the thigh circumference in the 89% of the considered cases.
- a statistically significant decrease in the abdomen circumference in the 91% of the studied cases.

RENOVENZYME® PB Effect in thighs



RENOVENZYME® PB Effect in abdomen



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