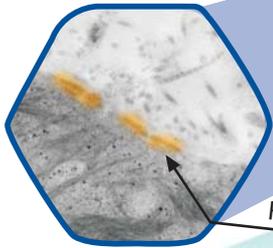
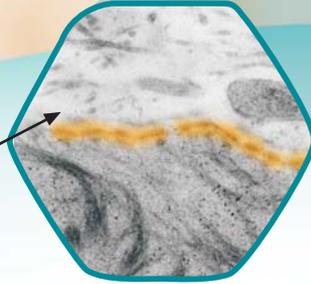


serilesine[®]



1. Before the treatment

Hemidesmosomes



2. After the treatment

Double cellular activity to firm the skin

**305% Synthesis
of Laminin-5**

**19% Increased
cutaneous density**

**405% Expression
of α 6-Integrin**



restructure



redensifying

Description

Hexapeptide from an adhesion sequence of laminin, which restores the cutaneous structure.

Appearance

Transparent solution containing 0.05% active ingredient.

INCI

Water (Aqua), Hexapeptide-10
Please contact us for information on the preservative system.

Science

Over the years the adhesion between the epidermal and dermal cells is reduced, which results in the loss of skin elasticity. **serilesine[®]** is a firming active that promotes a double-cellular activity on both keratinocytes and fibroblasts. It increases the synthesis of laminin-5, α 6-integrin and hemidesmosomes, thus strengthening the dermo-epidermal junction.

Properties

Redensifying and restructuring effect.

Applications

serilesine[®] can be incorporated in cosmetic formulations such as emulsions, gels, serums where restructuring and refirming of skin is desired.

Dosage

1-10%

Solubility

Water soluble.



 **Lipotec**

We research for you

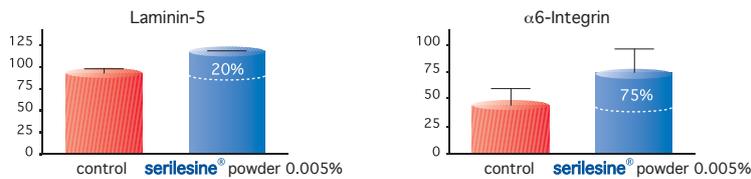
serilesine[®] is a registered trademark of Lipotec S.A.

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In vitro efficacy

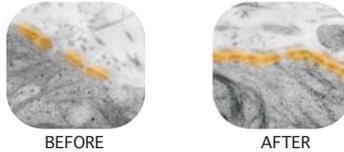
• Stimulation of adhesion proteins production

Efficacy demonstrated on 3D skin models which were treated with serilesine® powder 0.005%



• Stimulation of hemidesmosome formation

The yellow areas correspond to hemidesmosomes.



• Complementary Studies:

Keratinocyte proliferation 37.6%
Fibroblast proliferation 74.6%

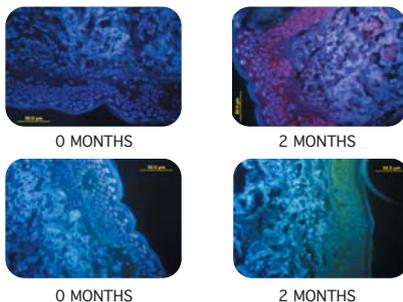
Significant increase of α6-Integrin and Laminin-5 production

Increment of hemidesmosome number serilesine® powder at 0.005% proved to increase the number of hemidesmosomes, thus increasing cohesion between dermis and epidermis.

Ex vivo efficacy

• Stimulation of α6-Integrin and Laminin-5 production

Laminin-5 and α6-Integrin expression was determined by immunohistochemistry. Skin biopsies of three patients were carried out before and after a two-month treatment with a cream containing 10% serilesine® Solution.



Red immunofluorescent stain for Laminin-5

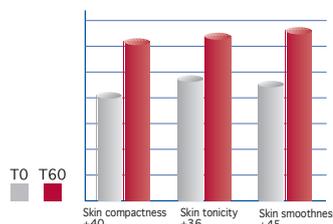
Green immunofluorescent stain for α6-Integrin

305% Synthesis of Laminin-5
405% Expression of α6-Integrin

In vivo efficacy

• Evaluation of skin appearance

Panel of 20 female volunteers
A cream containing 10% serilesine® Solution was applied twice a day during 60 days.
A dermatologist evaluated several parameters.

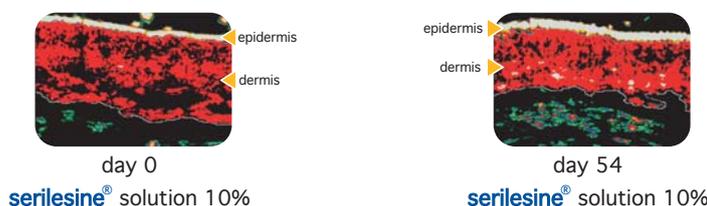


Skin appearance is significantly increased after 60 days

+40% Skin compactness
+36% Skin tonicity
+45% Skin smoothness

• Evaluation of the dermis density

Panel of 20 female volunteers aged 55 to 64.
A placebo cream was applied twice daily on one side of the face and the cream containing 10% serilesine® Solution on the other, during 54 days.



+19% Increased cutaneous density after 54 days