



BIOTECHNOLOGY



FINE
CHEMISTRY



VEGETAL
EXTRACTION

Peptiskin®
By Solabia



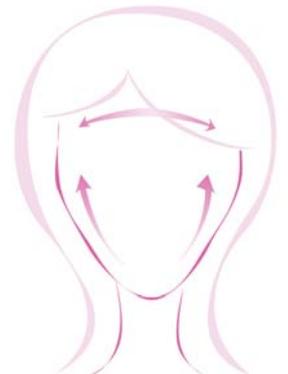
The Bio-Intelligent expertise

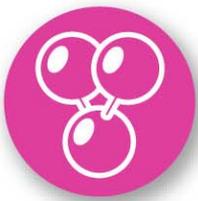


"Triple action"
Global anti-ageing peptide

REACTION FACE TO INESCAPABLE AND SLOW DOWN THE TIME :
AN ACCESSIBLE DREAM !

- **1. BIO-REGENERATION OF EXTRACELLULAR MATRIX STRUCTURAL COMPONENTS (COLLAGEN I, III, V, GLYCOSAMINOGLYCANS)**
▶ DECORIN STIMULATION FOR IMPROVING COLLAGEN NETWORK SHAPE
- **2. ANTI- COLLAGEN CROSS-LINKING ACTION : PEPTIDE**
« LURE OF SUGAR »
- **3. COLLAGEN CHRONOLOGICAL AND ACTINIC PROTECTION (ANTI-MMP1)**





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Peptiskin[®]

By Solabia

"Triple action" Global anti-ageing peptide



- **Definition**

PEPTISKIN[®] is a 40% dry extract solution (w/w) composed of L-lysine and L-arginine oligopeptides (degree of polymerization comprised between 2 and 7), obtained by a biotechnological enzymatic synthesis process without using any solvent.

- **CTFA name**

Arginine/Lysine polypeptide

- **Preservative**

0.1 % sorbic acid

- **Recommended dose**

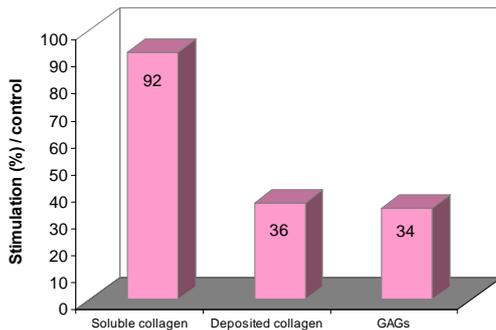
1% - 3%

- **Performances (technical file available on request)**

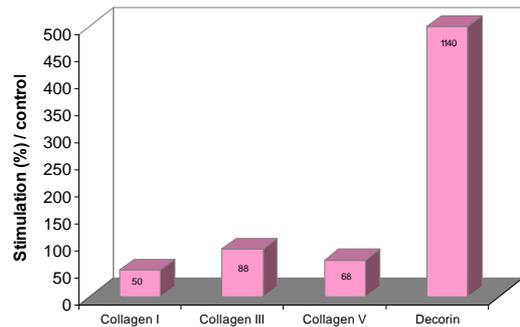
1- Stimulation of extracellular matrix structural component synthesis and deposit

In vitro study carried out on normal human dermic fibroblasts / Incubation during 72h with PEPTISKIN[®] at 0.4% vs Control / Synthesis : Add radioactive precursors of collagen and glycosaminoglycans (GAGs), synthesis quantification by radioactivity / Deposit : Immuno-labelling by specific fluorescent antibodies of collagens and decorin, observation by microscopy.

Synthesis : incorporation of ³H-Proline et de ³H-Glucosamine



Deposit : immuno-labelling by specific fluorescent antibodies



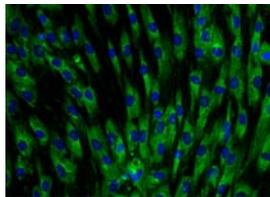
Collagen I : matrix structure and resistance

Collagen III : cutaneous restructuring and elasticity

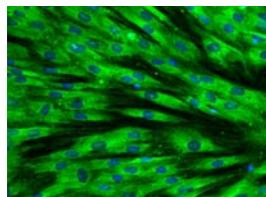
Collagen V : regulation of I and III collagen fiber diameter

Decorin (proteoglycan) : collagen fiber formation and combination, matrix stabilization and flexibility

Decorin deposit visualization



Untreated control



Test with PEPTISKIN[®]

Test with
PEPTISKIN[®] at 0.4%



More than 1140 %
increase !

2- Inhibition of anarchic collagen cross-linking

Proved *in vitro* by electrophoresis on polyacrylamide gel, in a denaturing condition on a model of Glucose + Collagen I +/- PEPTISKIN[®] (1.5 and 3%)

3- Inhibition of metalloproteinase 1 (MMP-1 collagenase) release

In vitro study on normal human dermic fibroblasts, incubated with PEPTISKIN[®] at 0.4% vs Control, stimulated or not by UVA / Quantification of released MMP-1 (Elisa kit).

- ▶ - 53% of basal MMP-1 release (without UV induction)
- ▶ - 22% of UV induced MMP-1 release