



BIOTECHNOLOGY



FINE
CHEMISTRY



VEGETAL
EXTRACTION

Peptiskin®

By Solabia

The Bio-Intelligent expertise



Global anti-ageing peptide Triple action

REACT FACE TO INEVITABLE AND SLOW
DOWN THE TIME: AN ACCESSIBLE DREAM!

■ **B**IO-REGENERATOR OF THE EXTRACELLULAR MATRIX STRUCTURAL
COMPONENTS (COLLAGEN I, III, V, GAGS, DECORIN)

■ **P**EPTIDE « LURE OF SUGAR » ANTI-RETICULATION
DISORGANIZED



■ **C**OLLAGEN CHRONOLOGIC AND ACTINIC
PROTECTOR (ANTI-MMP1)



BIOTECHNOLOGY



FINE CHEMISTRY



VEGETAL EXTRACTION

Peptiskin®

By Solabia

Global anti-ageing peptide Triple action



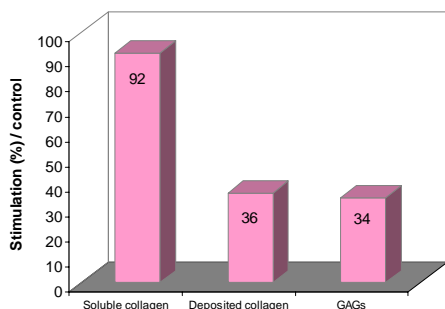
- **Definition**
Peptiskin® is a 40% dry extract solution (p/p) composed of L-lysine and L-arginine oligopeptides (degree of polymerization = 2-7), obtained by a solvent free process enzymatic synthesis.
- **CTFA Name**
Arginine/Lysine Polypeptide
- **Preservatives**
0.1 % sorbic acid
- **Recommended dose**
between 1% and 3%

• Performances

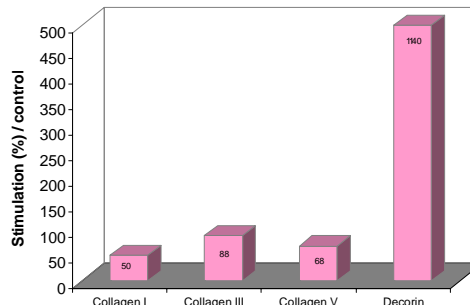
1- Stimulation of extracellular matrix structural components synthesis and deposit

Assay carried out on normal human dermic fibroblasts culture / Peptiskin® tested with 0.4%

Synthesis: ³H-Proline and ³H-Glucosamine incorporation



Deposit : Immuno-labelling by specific fluorescent antibodies and microscopic observation



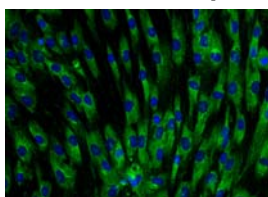
Collagen I : matrix structure and resistance

Collagen III : cutaneous restructuring and elasticity

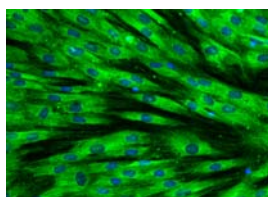
Collagen V : regulation of collagen fibers I and III diameter

Decorin (proteoglycane) : collagen fibers formation and assembly, matrix stabilization and flexibility

Decorin deposits visualization



Non treated control



Test with Peptiskin®

Test with
0.4% Peptiskin®



More than 1140 %
increase !

2- Inhibition of collagen anarchic reticulation

Demonstrated *in vitro* by electrophoresis on polyacrylamide gel, in denaturing conditions on a model of **Glucose + Collagen I +/- Peptiskin®** (1.5 and 3%)

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

Culture of normal human dermic fibroblasts with 0.4% Peptiskin® vs control, stimulated or not, by UVA . MMP-1 dosage with Elisa kit.

- 53% of basal MMP-1 release (no induction by U.V)

- 22% of MMP-1 release (induction by U.V)