

ACTIVE
INGREDIENTS

KOLLAREN[®]

DERMIS ENHANCER

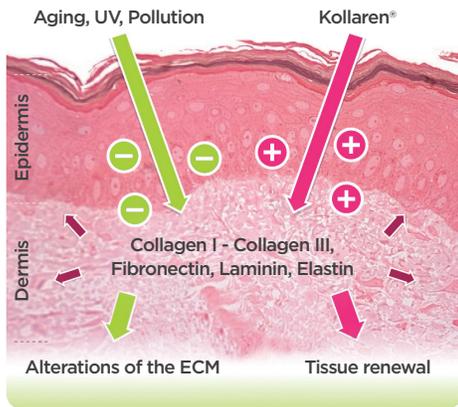
Biomimetic tri-peptide

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Boosts skin renewal and
restores the biomechanical
properties of the skin



KOLLAREN® IS A BIOMIMETIC PEPTIDE DERIVED FROM A SIGNAL PEPTIDE, IT INCREASES THE FIRMNESS AND HEALING PROCESS OF THE SKIN BY ACTIVATING THE SYNTHESIS OF EXTRACELLULAR MATRIX PROTEINS.



Kollaren® is a biomimetic peptide derived from a signal peptide. Kollaren® increases the firmness of the skin by activating the extracellular matrix proteins synthesis such as collagen, elastin, fibronectin and laminin. With its tissue repair properties, Kollaren® encourages tissue renewal and restores the biomechanical properties of the skin.

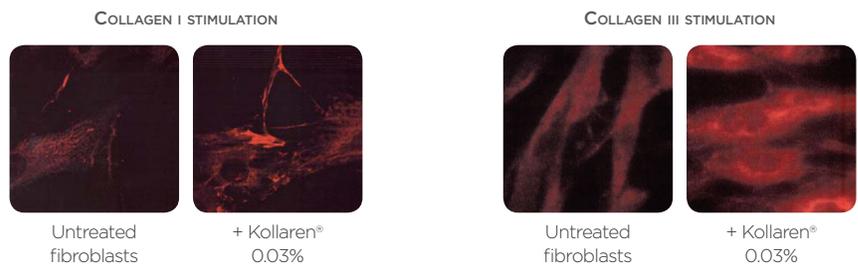
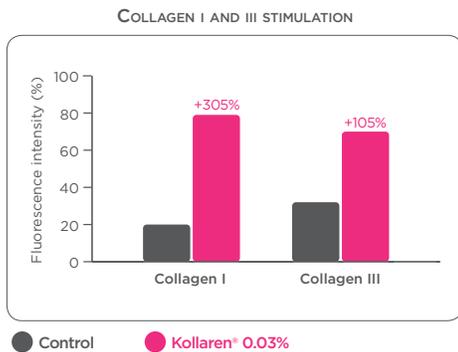
Kollaren® is the perfect tool to fight the aging process, reduce the appearance of sagging skin, wrinkles and other manifestation of skin aging.

Skin aging is influenced by several factors, including genetics, UV, mechanical stress, hormonal changes, pollution, and metabolic processes (generation of reactive chemical compounds such as activated oxygen species). Taken together, these factors lead to cumulative alterations of appearance, fonction and skin structure such as modifications in the architecture of the extracellular matrix (ECM). Aged skin will show general atrophy of the ECM reflected by decreased number and desorganisation of fibroblasts and reduced levels of collagen and elastin fibers. Consequences include skin fragility, loss of firmness and elasticity, skin thinning, appearance of fine lines and wrinkles, and a slower skin healing process.

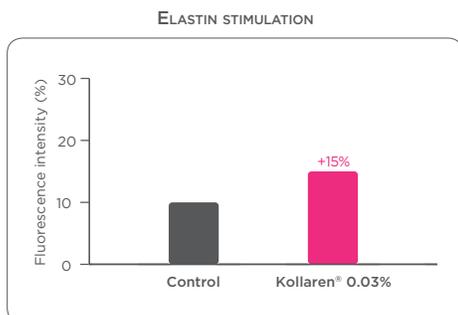
STIMULATION OF EXTRACELLULAR MATRIX PROTEINS

Collagens boosting effect

Collagen I and collagen III are components of the fibril system that support the dermal tissue, and give it strength, resistance and firmness.



An increase of these 2 components will have a direct impact on the biomechanical properties of the skin.



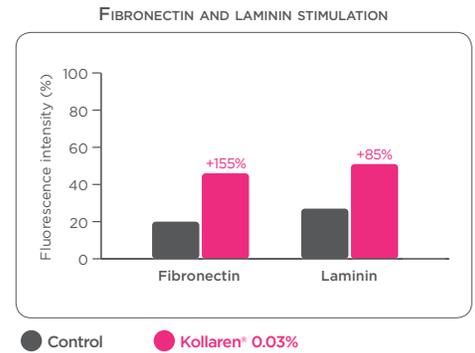
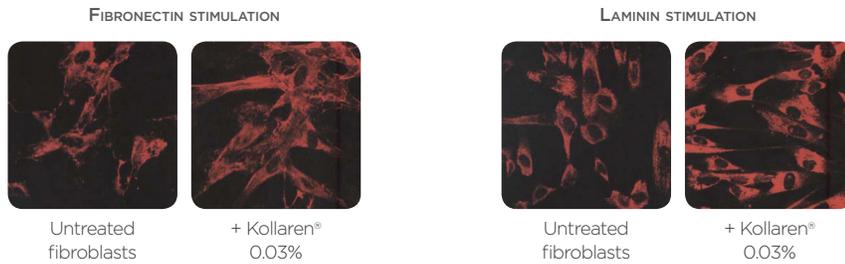
Stimulating elastin synthesis

Elastin fibers are mostly responsible for the maintenance of skin resiliency and elasticity.

Kollaren® will also have a positive impact on the skin elasticity.

Stimulating structural glycoproteins synthesis

Fibronectins and laminins are structural glycoproteins important for structural dermo-epidermal support. Fibronectin is secreted by fibroblasts and helps cell adhesion and migration. Laminin is found in basal lamina where it also promotes adhesion of epithelial cells onto the basement membrane. Both of these glycoproteins are involved in tissue repair and healing.

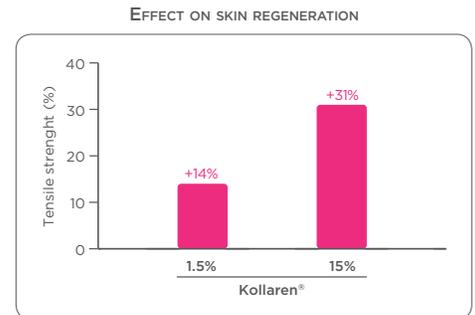


By increasing the production of these 2 glycoproteins, Kollaren® increases the natural repair and healing properties of the skin.

Inducing tissue renewal

Kollaren® was topically applied on skin excision. The evolution of healing was followed clinically. At the end of the healing process, a broad area of the skin was taken for a traction test using a dynamometer.

Kollaren® improves and accelerates tissue repair, providing essential element for fast skin repair.



ACTION ON ACNE-PRONE SKIN

Test protocol

- 63 consumers (18 to 40 years old) with acne-prone skin (not taking any anti-acne treatment during the study).
- Application of the "anti-acne cream" with 2% Canadian Willowherb™ and 2% Kollaren®, 2x/day during 8 weeks.

BENEFITS	RESULTS AFTER 4 WEEKS
The product removes excess sebum	82%
The product provides a freshness sensation	80%
The skin is clearer	72%
The product prevents the occurrence of blemishes	72%
The product removes impurities	68%

BENEFITS	RESULTS AFTER 8 WEEKS
The skin is not shiny	76%
The skin is smoother	72%
The product leaves the skin more beautiful	72%
The skin looks healthier	70%
The skin is mattified	64%

Consumers experience a reduction in blemishes and their skin is clearer in just 4 weeks. Consumers agree that acne spots are less visible for a mattified, smoother, and healthier looking skin.

KOLLAREN® HAS THE ABILITY TO REGENERATE ESSENTIAL FIBRILLAR COMPONENTS OF THE ECM. IT IS A KEY INGREDIENT FOR ANTI-AGING AND TISSUE REPAIR FORMULATIONS.

PRODUCT DESCRIPTION

INCI NAME

Water (1) (and) Dextran (2) (and) Tripeptide-1 (3)

CAS

7732-18-5 (1), 9004-54-0 (2), 72957-37-0 (3)

EINECS

231-791-2 (1), 232-677-5 (2), 277-125-4 (3)

APPEARANCE

Aqueous limpid solution, odorless and colorless

FORMULATION

Kollaren® should be incorporated at the end of the formulation at a temperature of 35/40°C.

DOSAGE

1 to 10%

OPTIMUM pH

5-7.4

APPLICATIONS

- Anti-aging
- Anti-wrinkle care
- Stretch marks care
- Correcting serum
- Wound healing
- Skin repair
- Body care
- Dermo-cosmeceutical care
- Mature skin care
- Men's care
- Skin firmness
- Acne scar repair

CHINA-COMPLIANT

FEATURES AND BENEFITS

FEATURES	BENEFITS
Peptide	Stable, easy to formulate and targeted action
High efficacy	Low dosage (starting at 1%)
Acts on all major ECM proteins	Boosts skin renewal for maximal healing and anti-aging properties
Complementary active in anti-acne products	Helps reduce the appearance of acne scars for a healthier looking skin

ANTI-ACNE CREAM

INGREDIENTS	INCI NAMES	%
A Water	Water	qsp
Glycerin	Glycerin	2.00
Glucam™ E-20	Methyl Gluceth-20	2.00
Tinovis CD	Dimethylacrylamide/Ethyltrimonium Chloride Methacrylate Copolymer (and) Propylene Glycol Dicaprylate/Dicaprate (and) PPG-1 Trideceth-6 (and) C10-C11 Isoparaffin	2.00
B Schercemol™ CO	Cetyl Ethylhexanoate	4.00
UCON Fluid AP	PPG-14 Butyl Ether	6.00
Lipex Shea WM	Shea Butter Oleyl Esters	4.00
BPD-500W	HDI/Trimethylol Hexyllactone Crosspolymer (and) Silica	0.90
Lipex Omega EPO	Vegetable Oil (and) Oenothera Biennis Oil	2.00
d-Delta-Rich	Tocopherol	0.10
C Neomekkins-M16	Phenoxyethanol (and) Methylparaben (and) Ethylparaben (and) Butylparaben (and) Propylparaben (and) Isobutylparaben	0.70
Kollaren® PS 100ppm	Water (and) Dextran (and) Tripeptide-1	2.00
Canadian Willowherb™ 5% Clear	Water (and) Epilobium Angustifolium Flower/Leaf/Stem Extract	2.00
Parfum Eclat SG 30533	Fragrance	0.01
Sodium Hydroxide (10% solution)	Sodium Hydroxide/Water	0.03

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