

# COBIOREPAIR WGC

Extracellular matrix for tissue repair

## INCI NAME:

Aqua, Umbilical Extract

## DOSE OF USE:

0,2%-3%

## SOLUBILITY:

HYDROSOLUBLE

## COSMETIC USE:

- ✓ Skin care preparations:
  - › Face-creams / Serums / Emulsions
  - › Regenerative & Restructuring treatments
  - › Firming treatments
  - › UV damage regenerative products

## DESCRIPTION:

Histocell is a Biopharmaceutical company focused on **regenerative medicine**. Combining Histocell's knowledge of both regenerative medicine and cell behaviour, and Cobiosa's R&D expertise, we have create **COBIOREPAIR WGC**, an innovative gel for the regeneration and repair of skin.

COBIOREPAIR WGC is a **Novel cosmetic ingredient** with outstanding **regenerative properties**, obtained by specific purification process, from Wharton's jelly of porcine umbilical cord.

It combines a **synergistic mixture** of concentrated highly bioactive **sulphated glycosaminoglycans** (GAGs) of low molecular weight + HA of high and low molecular weight.

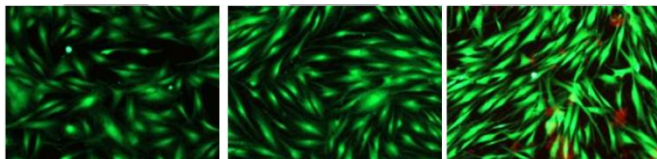
**Sulfated GAGs** provides anchor points to specific **growth factors** involved in **tissue regeneration**, repair processes, cell growth and differentiation, and synthesis and remodelling of the ECM.

**Sulfated GAGs** are **very difficult** to be **chemically synthesized** due to the long chain lengths and the complex patterns of modification by sulfation and epimerization.

CONTROL

SC 1%

COB. WGC 1%



Fibroblast proliferation

**Cob. WGC:** Cobiorepair WGC, **SC:** Synthetic Complex  
**Control:** culture medium

## PROPERTIES:

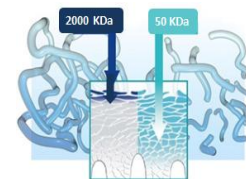
COBIOREPAIR WGC is composed by **50% Natural HA** of **high and low molecular weight** + **50% Sulfated GAGs of low molecular weight, <50 KDa**, which can penetrate the epidermis), mimicking the dermal ECM and providing regenerative and antioxidant properties of high bioactive value.

## CHARACTERISTICS:

- ✓ Patented hydrogel
- ✓ Acellular extract
- ✓ Synergistic mixture of concentrated **highly bioactive sulphated glycosaminoglycans** (GAGs) of **low molecular weight** + HA of high and low molecular weight
- ✓ Natural origin. High affinity with the skin
- ✓ Provides **new extracellular matrix** (ECM) for tissue repair
- ✓ Regenerative & Antioxidant properties

## EFFICACY TESTING:

- › **1% In-vitro efficacy testing** has shown:
  - Anti-oxidant protection
  - Dermal proteins synthesis stimulation
  - High chemotactic ability, mobilizing surrounding cells to the repair site.
- › **0,2% In-vivo efficacy testing**, after 3 months of treatment has shown:
  - 26.3% increase in epidermal thickness
  - 50 % increase of elastic fibers
  - 119 % increase of collagen III



N a t u r a l l y E f f e c t i v e