



Lycolab



FREEZE-DRIED NATURAL COLLAGEN OR **BIOCOLLAGEN**. THE NATURAL ALTERNATIVE TO TRADITIONAL AND MARINE COLLAGEN . **FOR SENSITIVE SKINS**

FREEZE-DRIED COLLAGEN 10%.

SHA® lyophilized or freeze-dried biocollagen is 100% natural, certified type I collagen from *Helix aspersa* snails for topical use.

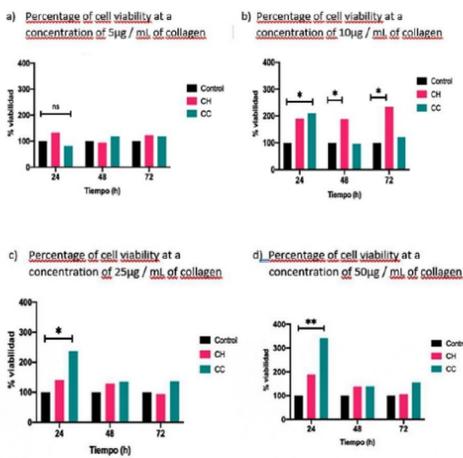
ECollagen is essential in treatments that seek to alleviate the signs of dermal aggressions. Collagen is hydrophilic, firming and regenerating, i.e. it helps cell regeneration and renewal by fibroblasts (key cells in the changes associated with aging).

Our SHA® lyophilized or freeze-dried biocollagen has extraordinary properties that give it good skin tolerance, effective bioavailability and high biofunctionality thanks to freeze-drying. Lyophilized biocollagen is purer, stable and of better quality than its counterparts and free of additives, facilitating its formulation in multiple formats.



IN VITRO EFFECTIVENESS STUDY *

The study of the effectiveness of biocollagen (*H.aspersa*) against other collagens is based on the relationship between the number of fibroblast growth (skin cells that make up the dermis) and dermal regeneration and compare how they act in this process and at what concentrations.



Increased fibroblast growth in the first 24 hours of culture when using 10% lyophilized biocollagen (snail collagen) at a concentration of 5 µg/ml.

This viability in fibroblasts is higher than that of the controls tested when the concentration of 10% freeze-dried biocollagen (snail collagen) at a concentration of 5 µg/ml. within the range 50 and 100 µg/ml.

Increased fibroblast growth oscillates effectively at concentrations of 10% lyophilized biocollagen (snail collagen) at a concentration of 5 µg/ml. within the range 5-100 µg/ml.

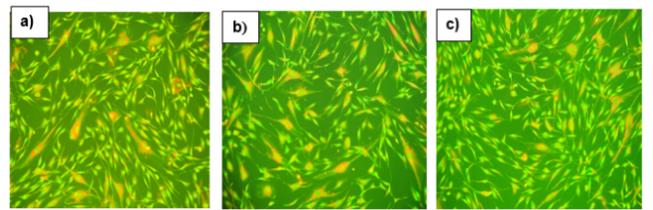


Figura 6. Imágenes de microscopía de fluorescencia que muestran la actividad metabólica de los fibroblastos a las 24 horas del inicio del crecimiento celular y con un aporte de CH y CC de 25 µg/mL. a) Control, b) Colágeno humano (CH) tipo I, c) Colágeno de caracol (CC).

Fig.5. Effect of the concentration of snail collagen (CC) and human choagene (CH) on the growth of fibroblasts

(*Study carried out by the consolidated research group Parasitology and Immunology of the university research system. Department of Immunology, Microbiology and Parasitology, Faculty of Pharmacy of the Basque Government University of the Basque Country/Euskal Herriko Unibertsitatea.

SHA® LYOPHILLIZED Ó LYOPHILIZED BIOCOLLAGEN

- Stable product without stabilizers.
- Preserved without preservatives.
- Maintains the biofunctionality of collagen by keeping the structures intact.
- It does not need cold for its preservation .
- It is light and does not occupy almost no space .
- High resistance to biological contamination .
- It has a shelf life of 5 years .

INCI NAME: Snail secretion filtrate .

DOSAGE USAGE

For 5% aqueous and lipid solution.

SOLUBILITY

Water soluble and fat soluble (with surfactant).

TOPICAL USE



SAFETY AND QUALITY STUDIES

- We perform in vitro "short time exposure" and "h-CLAT" tests that guarantee the absence of ocular irritability and dermal sensitivity and dermal sensitivity
- In addition, our collagen has been analyzed by experts at the Department of Genetics, Physical Anthropology and Animal Physiology of the UPV/EHU and the CSIC, using the Lowry HPLC assay methodology, yielding extraordinary quantitative results with a collagen concentration of 10% and up to 5% elastin. 10% collagen and up to 5% elastin.

¡Rely on the safety and quality of our lyophilized SHA® lyophilized or freeze-dried biocollagen!



Reputable organizations certify that we are environmentally friendly and that there is no animal abuse in the process of obtaining our SHA® lyophilized or freeze-dried biocollagen. Manufacturing process ascribed to the calculation of the carbon footprint assumed by the Spanish Ministry for Ecological Transition and the Demographic Challenge.

