

INNENA®

AQUA



by INNATE

PROUDLY MADE IN ITALY



**INNEA® FISIOLHOGY** is a novel broad-spectrum biochemical language precisely formulated in various modalities. Its biomimetic properties enable optimal interaction with dermal tissues, promoting cellular regeneration and enhancing physiological equilibrium, which is essential for sustained dermis health and integrity.

**INNEA® AQUA**, a patented formulation is designed for advanced skin regeneration with prolonged action, this bio-enhancing formula associates Hyaluronic acid obtained with a special range of molecular weights and trehalose, an extremely effective stabilizing element, supporting a more intense moisturizing action and a greater and more effective dermal regeneration, resulting lasting hydration and healing.



#### **ABOUT TREHALOSE**

Trehalose is a non-reducing sugar commonly found in bacteria, fungi, yeast, insects, and plants<sup>1</sup>.

Trehalose slows down the action of HA <sup>2,3</sup> enzymatic degradation by prolonging the duration of the dermo regenerative effects.

An in-vitro study revealed that hyaluronic acid was hydrolyzed by 54.1% (P<0.05) within one hour in a composition lacking trehalose. Conversely, when 1% trehalose was present, the hyaluronic acid remained unaffected after one hour<sup>4</sup>.

## INNEA® AQUA'S SUSCEPTIBILITY TO DEGRADATION BY THE ENZYME

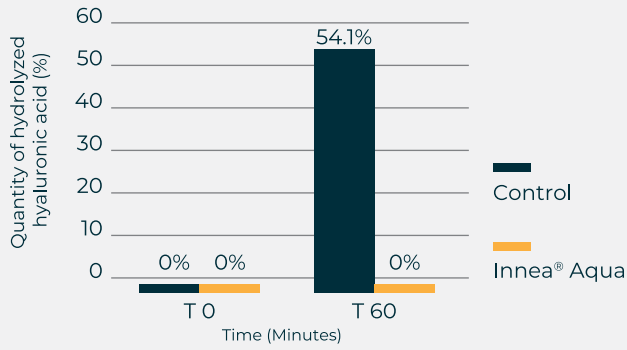


Figure 2. Reported data refer to the quantity of hydrolyzed hyaluronic acid

## WOUND HEALING PROPERTIES IN INNEA® AQUA

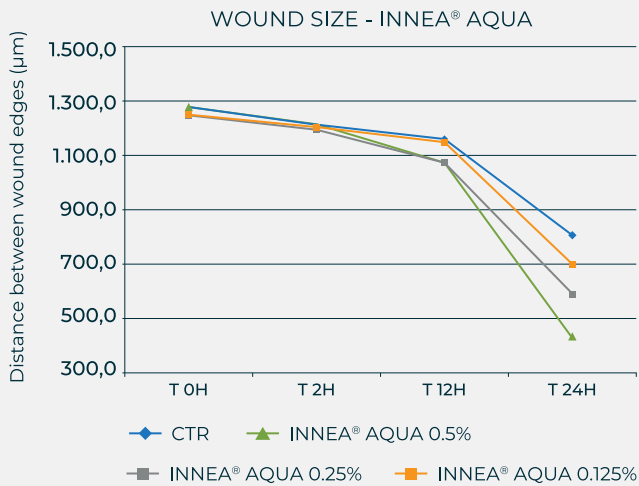


Figure 1. Reported data refer to the repairing activity of treated cells and control cells (CTR)

- Figure 1 shows the distance between the wound margins in treated cell culture and in untreated (control) cell culture for each experimental time compared to T0
- The results obtained highlight that treating cell cultures with INNEA® AQUA significantly accelerates wound healing<sup>5</sup>

## PRODUCT SPECIFICATIONS

INNEA® AQUA	
Active ingredients	Sodium Hyaluronate Trehalose (10mg/ml)
HA Concentration	25mg/ml
Molecular weight	Average 1.4 MDa MW (1,200-1,500 KDa) and LW (200 – 400 KDa)
Pack Size	1 x 2.0 ml pre-filled syringe 2 x 30G ½ inch sterile needles
Indications	Intense Hydration Superficial scars

## BEFORE & AFTER INNEA® AQUA



Before

1 week after  
2<sup>nd</sup> treatment



Before

1 month after  
1<sup>st</sup> treatment



Before

1 month after  
1<sup>st</sup> treatment

For healthcare professional use only



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References:

**1.** Chen, A., & Gibney, P. A. Dietary Trehalose as a Bioactive Nutrient. *Nutrients*. 2023; 15(6), 1393. **2.** Jain NK, Roy I. Effect of trehalose on protein structure. *Protein Science*. 2009; 18: 24-36. **3.** Benaroudj N, Goldberg AL. Trehalose accumulation during cellular stress protects cells and cellular proteins from damage by oxygen radicals. *Journal of Biological Chemistry*. 2001; 276: 24261-24267. **4.** Panzieri F, L ISR. IT201800010415A1. Injectable composition comprising hyaluronic acid and trehalose and use of said composition. 2018. Google Patents Available from: <https://patents.google.com/patent/IT201800010415A1/en>. **5.** Data on file