

Actives

PRODUCT DOSSIER

HYALINK-300

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VERSION 1.01

BEAUTICS
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PRODUCT DATA SHEET (PDS)

HYALINK-300™

1. Description

HYALINK-300™ is an advanced crosslinked hyaluronic acid technology designed to deliver intense, immediate and sustained skin hydration while supporting a smoother, more youthful skin appearance. Combining Sodium Hyaluronate with Sodium Hyaluronate Cross-polymer, its crosslinked structure forms a soft hydrogel microparticle network capable of binding large amounts of water and resisting enzymatic degradation. This creates a high-performance hydration reservoir on the skin while also providing a delivery environment that can prolong the release of absorbed cosmetic actives.

2. INCI:

Sodium Hyaluronate and Sodium Hyaluronate Cross polymer

3. Mechanisms Of Action

3.1 Advanced Hydrogel Network

- Crosslinking transforms hyaluronic acid into a soft hydrogel microparticle structure with high water-binding capacity, creating a hydrated environment that supports immediate skin moisturization and improved skin texture.

3.2 Enhanced Polymer Persistence

- The crosslinked network provides greater resistance to hyaluronidases, enzymes responsible for hyaluronic acid degradation, helping maintain the hydration-supporting structure for longer than conventional HA.

3.3 Active Retention & Controlled Release

- CrossLinkedHA™ can interact with absorbed cosmetic actives and create a reservoir within its hydrated network. The reference study using niacinamide demonstrated longer release of the absorbed active compared with water and conventional HA environments.

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4. Pharmaceutical Characterization

Parameter	Characterization
Polymer base	Hyaluronic acid
Starting HA molecular weight	300 kDa
Appearance	White to off-white, free-flowing powder
Water solubility	Fully soluble in water
Recommended concentration	0.01–0.10%
Safety-test concentration reported	Up to 1%
Shelf life	24 months

5. Role in Cosmetic Formulations

- **Advanced Hydration**

Provides high water-binding capacity and immediate hydration enhancement.

- **Longer-Lasting Hydration**

The crosslinked structure is more resistant to hyaluronidase degradation than conventional HA.

- **Immediate Wrinkle Reduction**

An in-vivo study using 1% HYALINK-300 in a serum with five volunteers reported an immediate 20% reduction in wrinkle depth after 30 minutes.

- **Rapid Skin Hydration**

An in-vivo study using only 0.01% HYALINK-300™ in an emulsion with eight volunteers reported an immediate hydration increase of 58%.

- **Active Delivery**

The reference study demonstrates prolonged release behavior for absorbed niacinamide compared with water and conventional HA environments.

- **Texture & Elasticity Support**

The technical document identifies improvement of skin elasticity and texture as additional benefits.

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6. Formulation Considerations

Handling

HYALINK-300™ is a heat- and pH-sensitive polymer system.

Processing Recommendations

- Avoid unnecessary prolonged heating.
- Avoid extreme pH conditions.
- pH <4 or >10 can lead to polymer decomposition.
- Heat accelerates degradation under extreme pH conditions.

7. Application Formats

Application	Main Pharmaceutical/Cosmetic Output
Hydrating Serum	Immediate wrinkle-depth reduction
Anti-Aging Serum	wrinkle reduction
Moisturizer	Immediate & sustained hydration
Eye-Care Formula	Hydration + wrinkle-care positioning

PRODUCT DATA SHEET (PDS)

8. Clinical Performance

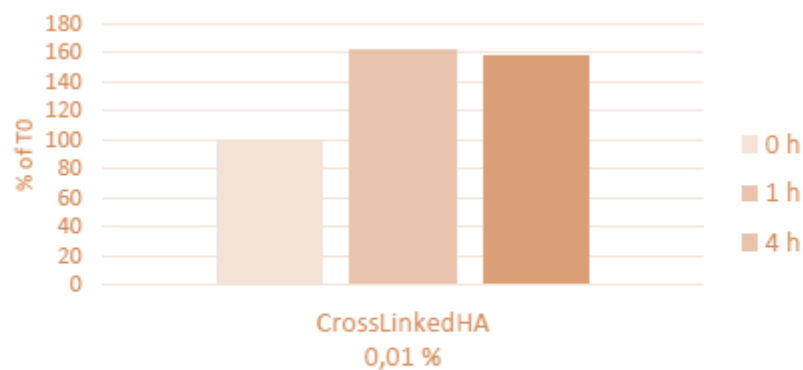
1. Immediate Hydration Enhancement

- Study Objective**

To evaluate the ability of HYALINK-300™ to provide rapid and sustained improvement in skin hydration when incorporated into a facial emulsion.

- Test Material & Concentration**

HYALINK-300™ at **0.01%** in an emulsion.



CROS (0,01%) in emulsion, face, 8 volunteers.
Hydration determined by CM 825 Corneometer
(Courage and Khazaka electronics)

- Results**

Application of HYALINK-300™ produced a pronounced hydration response, with an immediate increase in skin hydration of 58% compared with baseline.

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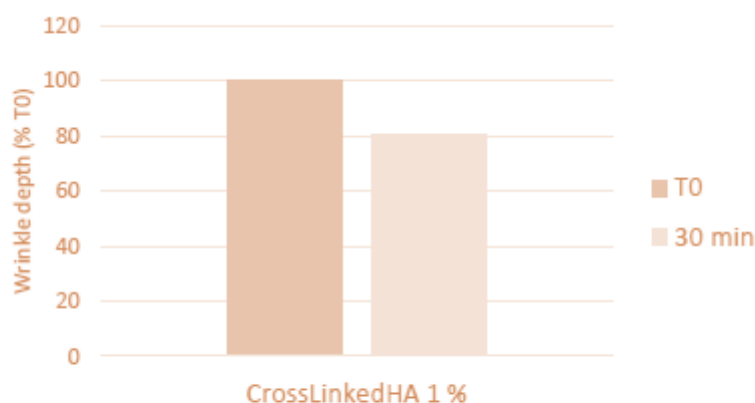
2. Immediate Wrinkle-Depth Reduction

- Study Objective**

To investigate the immediate skin-smoothing and wrinkle-reducing performance of HYALINK-300™ when incorporated into a facial serum.

- Test Material & Concentration**

HYALINK-300™ at **1%** in a serum.



CROS (1%) in serum, crow's feet area, 5 volunteers.
Wrinkles depth determined by Primos camera

- Results**

The study reported an immediate 20% reduction in wrinkle depth after 30 minutes.

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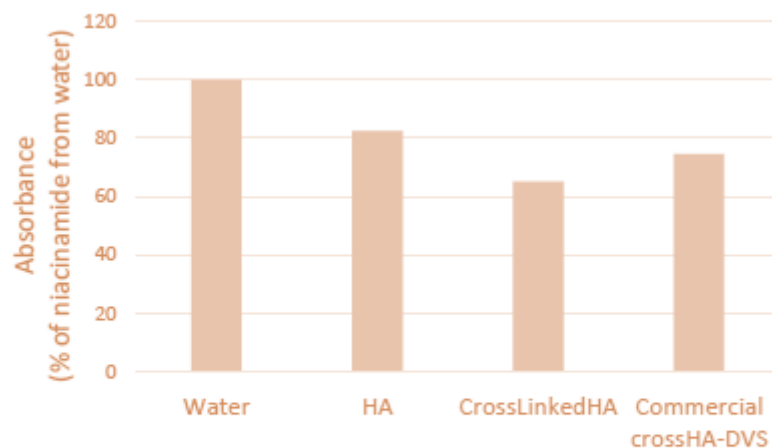
3. Active Delivery & Release Study

- Study Objective**

To investigate the ability of HYALINK-300™ to influence the release behavior of an incorporated cosmetic active compared with conventional aqueous and HA-based environments.

- Model Active**

Niacinamide



Niacinamide in different environments: with water/HA/CROS/commercial crosslinked HA, dialysis chambre, release after 2 h determined by measuring the absorbance.

- Results**

The study demonstrated longer release of the absorbed active in the HYALINK-300™ system, supporting its potential to function not only as a hydration technology but also as an active-retention and delivery platform.

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