

Cross Polymer HA

BIOTECH EDGE

Developed through **precision biopolymer technology**, Sodium Hyaluronate Cross polymer transforms hyaluronic acid into a 3D hydration matrix that mimics skin's moisture-retention architecture. This next-gen structure ensures **timed-release hydration and barrier reinforcement**, offering long-lasting softness and suppleness. It is not just moisture, it is biotech-engineered retention and resilience.



Sodium Hyaluronate Crosspolymer is a chemically cross-linked form of hyaluronic acid designed to build a 3D molecular network. Unlike linear HA that degrades quickly on skin, this stabilized structure forms a durable water reservoir, releasing hydration over time and providing lasting plumpness. Its gel-like consistency enhances film formation, ensuring skin remains supple, protected, and comfortably moisturized.

PRODUCT DETAILS

INCI name:

**Sodium Hyaluronate
Crosspolymer**

Recommended dosage:

0.05 – 1.0%

Appearance:

Colourless clear viscous liquid

APPLICATIONS :



Long-wear
moisturizers & serums



Anti-aging creams with
sustained hydration claims



Cushioning formulations
for sensitive or dry skin



Advanced "second skin" and
long-lasting cosmetic products

KEY FEATURES :

- Non-GMO Microbial Fermentation Origin
- Non-Animal raw materials
- High purity profile suitable for cosmetic application
- Higher Glucuronic acid content
- Lower content of residual protein, nucleic acid, heavy metals and other impurities

WHAT IT BRINGS TO YOUR FORMULATION :

- Reliable, long-lasting hydration performance
- Stability and resistance against quick breakdown
- Adds luxurious sensorial texture to emulsions and gels
- Compatible with actives, peptides, ceramides, and antioxidants

EFFICACY TEST :

Proven Skin Compatibility

In vitro studies confirmed that Sodium Hyaluronate Crosspolymer is non-cytotoxic, with no adverse skin reactivity observed in human clinical assessments, demonstrating excellent tolerance even for sensitive skin.

Enhanced Hydration & Skin Cushioning

MPPD evaluation showed a statistically significant +8.32% improvement in the product-treated area versus blank control ($p < 0.05$), indicating enhanced moisture retention, skin cushioning, and surface smoothness through formation of a hydrating film.

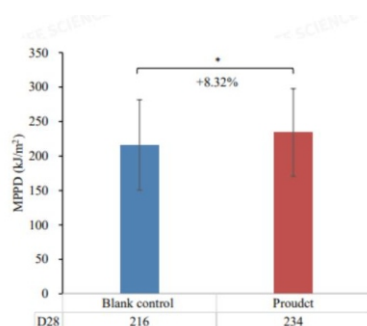


Figure 1 : Comparison between blank control area and product area * Indicates a statistically significant difference from blank control after product use

UVA Response Stability

Upon 28 days application of the product, the reduction in ITA° and ΔITA° was found to be non-significant but marginally lower compared to the blank skin area, indicating mild protection of effect of the product against UVA induced pigmentation.

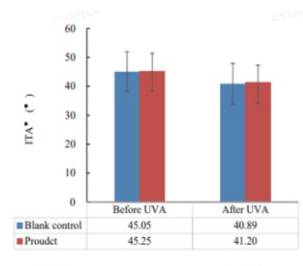


Figure 2: Comparison between before and after UVA exposed

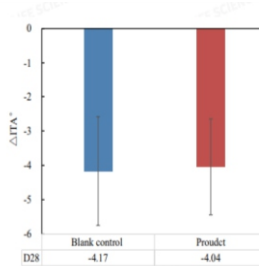


Figure 3: Comparison between blank control area and product area

CLINICALLY PROVEN BENEFITS :

- Provides long-lasting hydration through sustained moisture retention
- Significantly improves skin cushioning and surface smoothness
- Forms a protective, hydrating film that supports barrier comfort over time
- Non-cytotoxic and non-irritating, confirmed by in vitro and human skin compatibility studies
- Maintains skin comfort under UVA exposure, without increasing skin sensitivity
- Suitable for sensitive and long-wear cosmetic formulations