

4D HA

4D Hyaluronic Acid

BIOTECH EDGE

4D Hyaluronic Acid **integrates four synergistic molecular weights** to deliver **precise, multi-level hydration through a biomimetic, skin-adaptive mechanism**. Its intelligent layering system replenishes moisture at the epidermis, reinforces the stratum corneum, and forms an invisible hydrating veil that supports barrier recovery and long-lasting suppleness. The deeper fraction penetrates efficiently to maintain dermal hydration equilibrium, offering a refined, plump, and smooth complexion with enhanced resilience.



PRODUCT DETAILS

INCI name:

Sodium Hyaluronate, Sodium Hyaluronate Crosspolymer, Sodium Acetylated Hyaluronate, Hydrolyzed Sodium Hyaluronate.

Recommended dosage:

1 – 10%

Appearance:

Colourless to light yellow liquid

APPLICATIONS :



Barrier-repair
formulations



Hydration
boosters



Dermocosmetic
treatments



Age-Defying
Serums



Moisturizing
Cream



Soothing
Mask

KEY FEATURES :

- Four-fraction hyaluronic acid hydration system
- Non-animal origin• Suitable for cosmetic applications
- Designed for multi-level skin hydration
- Supports skin barrier integrity
- Provides long-lasting moisture retention

4D Sodium Hyaluronate contains four different types of hyaluronic acid

1. Sodium Hyaluronate Cross Polymer
2. Medium Molecular Sodium Hyaluronate
3. Sodium Acetylated Hyaluronate
4. Hydrolyzed Sodium Hyaluronate.

· When applied to the skin, different types of hyaluronic acid can accurately locate the surface of the skin, the stratum corneum, the epidermis and the dermis and instantly exert three-dimensional moisturizing effect. The inner layer replenishes water, the outer layer locks water, presenting a multi-level tender skin.

Sodium hyaluronate crosslinked polymer

Dense invisible protective film, long-lasting moisture.

Stratum corneum

Sodium Acetylated Hyaluronate

Double moisturizing, repair cuticle barrier, effective skin softening

Middle molecule sodium hyaluronate

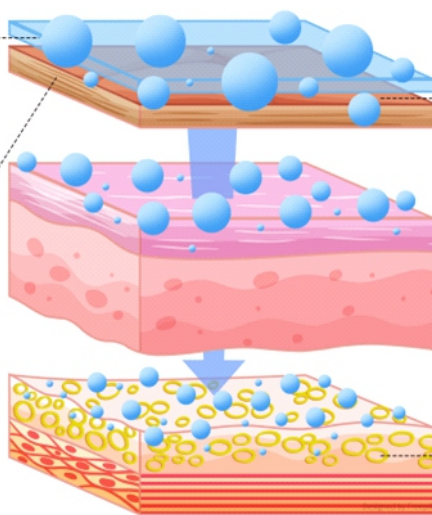
Breathable hydration membrane to prevent water loss from inside the skin. The surface locks in water and replenishes water to soften the cuticle

Epidermis

Hydrolyzed sodium hyaluronate

Fast penetration into the skin, deep water lock, muscle bottom maintenance

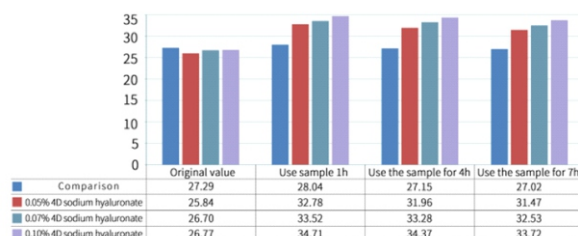
Dermis



WHAT IT BRINGS TO YOUR FORMULATION :

- Immediate and long-lasting hydration
- Improved barrier integrity
- Visibly smoother skin texture
- Enhanced plumpness and suppleness
- Elevated sensoriality with a refined, moisture-rich finish

EFFICACY STUDIES :



Immediate and continuous moisture retention of the sample is proportional to the amount of sodium quadruple* hyaluronate added (within a certain range).

- Forms dense invisible protective film
- Double moisturizing
- Repair cuticle barrier
- Effective skin softening
- Deep water locking capability

CLINICALLY PROVEN BENEFITS :

- Forms a dense invisible protective film
- Provides double moisturizing at the surface and stratum corneum
- Repairs the cuticle barrier
- Softens and smoothens the skin
- Enhances deep water-locking capacity
- Supports hydration balance at the dermal layer