

# HA-TLM3-5

## Small Hyaluronic Acid

HA-TLM3-5 is a small molecule of Hyaluronic Acid (HA), with molecular weight in the range 37k-56kDa. It has not only good moisturizing property, but also activities such as transdermal absorption capability, nourishing the skin deeply, etc. It can restore youthful skin by withholding water, improving skin elasticity and decreasing skin wrinkles.

### Anti-aging Activity

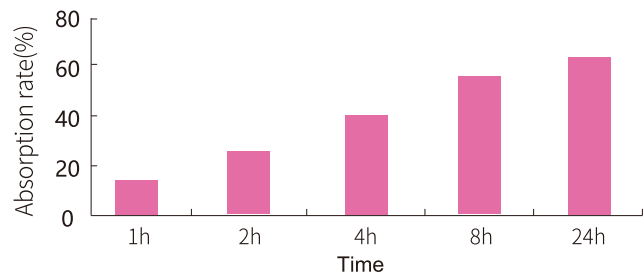
*Transdermal absorption*  
*Hydrating deeply*  
*Improving skin elasticity*  
*Decreasing skin wrinkles*



### In-vitro

#### Transdermal Absorption

HA-TLM3-5 can penetrate into the skin and nourish the skin deeply. The absorption rate can reach 55% and 61% after 8h and 24h respectively.

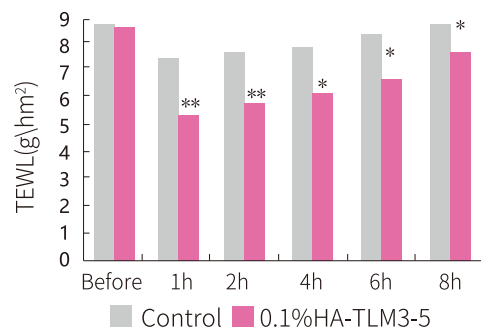
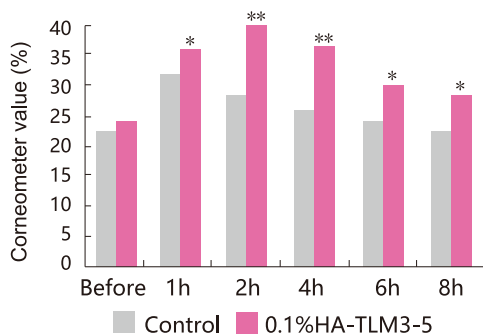


Sample: 0.1% HA-TLM 3-5 solution  
Instruments: Side-Bi-Side Cell (PermeGear)

### In-vivo

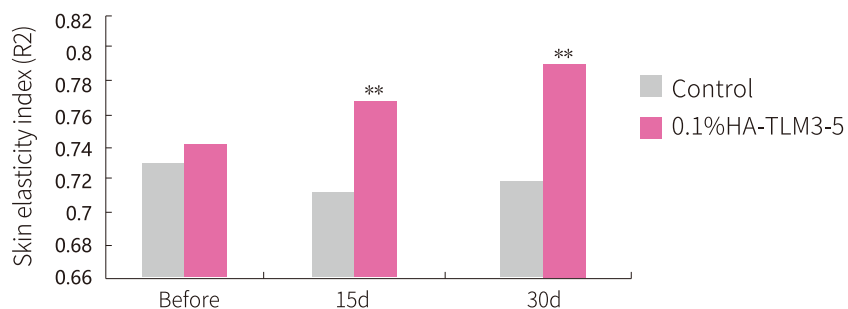
#### Water-holding & Water-locking

HA-TLM3-5 can increase the skin hydration and reduce the skin water loss acting like a “water-reservoir” inside the skin: Skin is moisturized constantly.

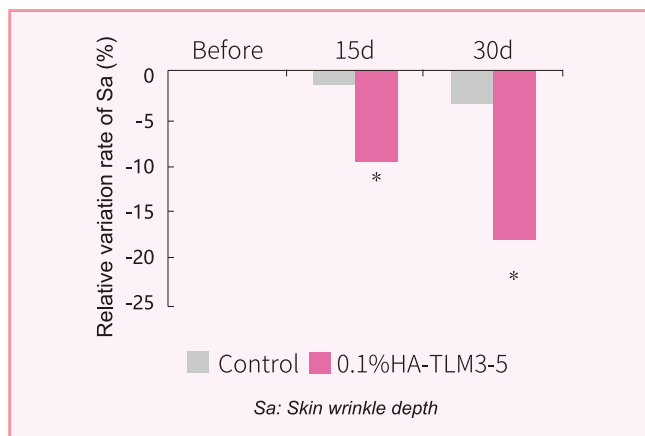
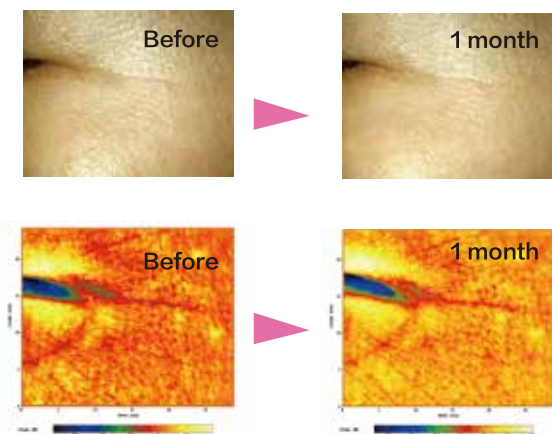


## Elasticity-improving

After 30 days application, HA-TLM3-5 can improve skin elasticity, and efficiently restore youthful skin.



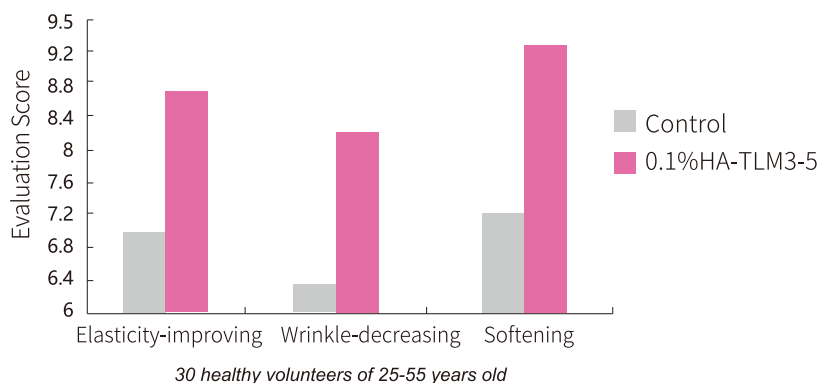
## Wrinkle-decreasing



After 30 days application, HA-TLM3-5 can decrease skin wrinkles and make skin smooth.

## Clinical Evaluation

The skin of the volunteers becomes soft, elastic and shows improvement of wrinkle conditions after applying an HA-TLM3-5 cream for 30 days. HA-TLM3-5 can decrease the skin roughness by bounding water and softening the cuticles.



## Usage

### Application

Easy to handle with. It can be used in anti-aging, moisturizing, repairing skin care products.

### Recommended dosage

0.1%-0.5%



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