

FULL-SPECTRUM SODIUM HYALURONATE

Introduction

Full-spectrum Sodium hyaluronate is an innovative raw material developed by FocusFreda, covering the full molecular weight range (ultra-low, medium, high molecular weight) to achieve multi-level, all-round skin care and health benefits. The product adopts advanced biological fermentation and purification technology to ensure high purity and high biological activity.

Product advantages

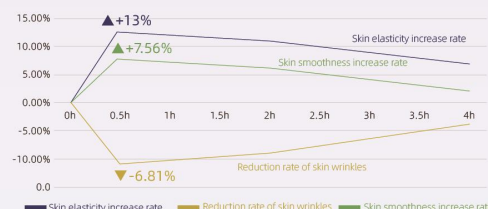
1. Covering full different molecular weight

2. Complies with the human skin's natural environment

Full-spectrum sodium hyaluronate shows higher similarity and compatibility with the molecular weight distribution characteristics of the body's own endogenous multi-molecular weight sodium hyaluronate.

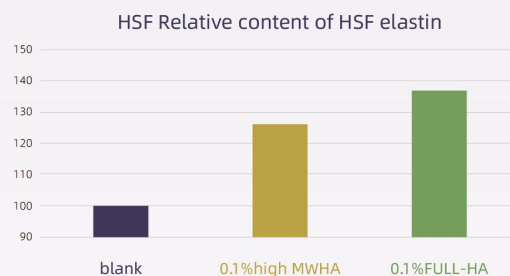
3. Efficient penetration with excellent performance

After the subjects used the product containing 0.5% full-spectrum Sodium hyaluronate, the improvement rate of multiple skin parameters reached the maximum value in about 30 minutes.



4. Promote cellular elastin production and improve skin firmness and elasticity

The cells were cultured in a cell culture incubator until the cell density was about 70%, and 0.1% full-spectrum sodium hyaluronate aqueous solution sample or negative control was added and cultured in an incubator for 72 h. The results showed that 0.1% full-spectrum Sodium hyaluronate could significantly promote the production of elastin in HSF cells.



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FULL-SPECTRUM SODIUM HYALURONATE

Application

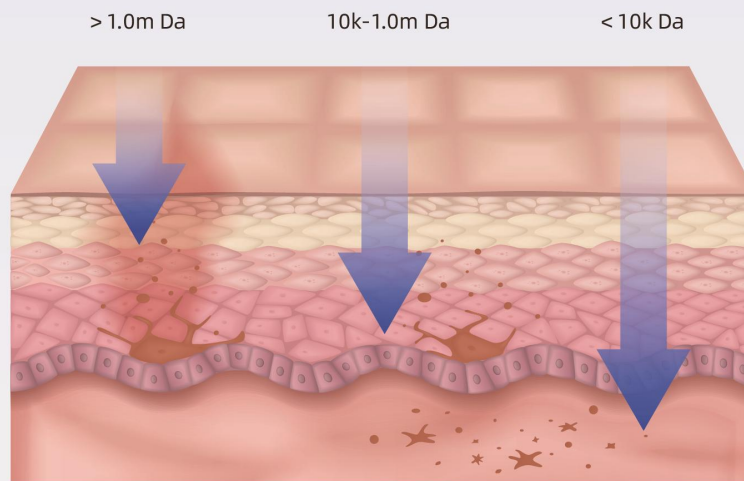
Skin care products - serums, creams, masks, toners

Specification

INCI:Sodium Hyaluronate

Recommended dosage: 0.1%-0.5%

Appearance: White to off-white powder



> 1.0m Da HA:

> 2.0m Da HA forms a moisturizing film on the skin surface, physically blocking some larger PM particles from entering the skin; it can also help reduce the adverse effects of UV rays on the skin.

> 1.3m Da HA forms a flexible protective film on the skin surface, locking in moisture and isolating external impurities.

10k-1.0m Da:

<1.0m Da HA works on the stratum corneum, replenishing moisture for corneocyte cells and maintaining skin cell morphology.

<200k Da HA penetrates the granular layer of the skin, regulating immune responses, protecting Langerhans cells, and providing anti-inflammatory effects.

< 10k Da:

Hydrolyzed Sodium Hyaluronate (<10k Da) works in the stratum spinosum, repairing damaged cells, promoting cell proliferation, and supporting intercellular lipids to maintain healthy skin.

Molecular weight <1000 Da can deeply penetrate the gaps at the DEJ (dermal-epidermal junction), filling spaces, enhancing the strength and stability of the extracellular matrix, and maintaining the normal structure of basal cells and the DEJ.

In the dermis, it activates fibroblasts, promotes collagen production, and simultaneously inhibits collagen degradation.