

Hyatru[®]

Cross-linked Sodium Hyaluronate (HA-CL-M)

Novel Cross-linked HA Powder, High Efficiency & Safety, Solution for Gel Injectables

Hyatru[®] Cross-linked Sodium Hyaluronate is an innovative cross-linked HA powder of Bloomage, leveraging its proprietary high - efficiency gradient cross-linking technology. The manufacturers of final dosage can use it to easily produce the cross-linked HA injectables through simple steps — reconstitution → filling → steam sterilization. The novel product with uniform medium-size particles offers a highly efficient and safe solution to producing dermal filler for facial enhancement, intra-articular injections for osteoarthritis treatment and other innovative fillers.



Production Process of Hyatru[®] Cross-linked Sodium Hyaluronate Powder

Product Feature

Proprietary Hyacross[®] Technology

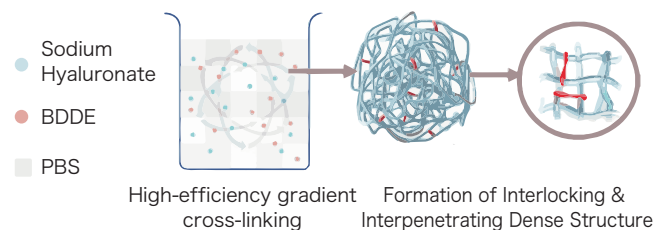
It provides a high-efficiency gradient cross-linking approach.

More Stable and Resistant to Enzymatic Degradation

With a 1% low crosslinking degree and high crosslinking efficiency, the patented technology enables the product to form a dense interlocking and interpenetrating network structure, significantly enhancing resistance to enzymatic degradation.

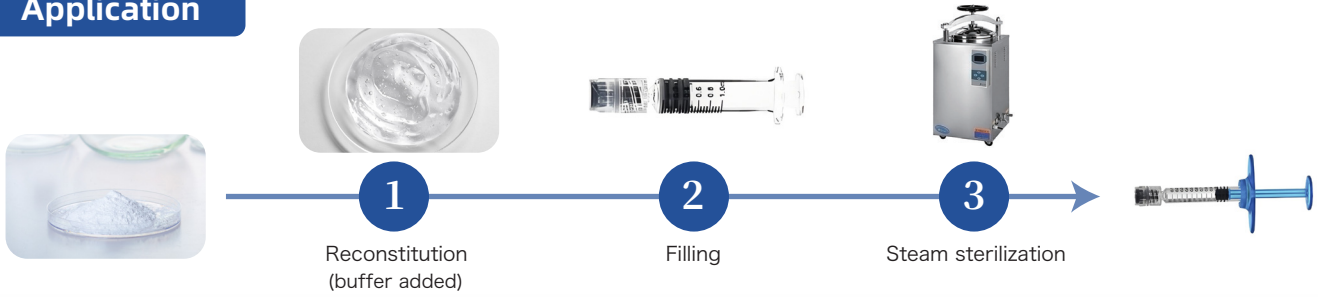
High Safety

- *Ultra-low residual impurities (protein, endotoxins, elemental impurities, etc.)
- *Residual crosslinker (BDDE): not detected (< Limit of Detection)



*Data Source: Cross-linked Sodium Hyaluronate Test Report by Bloomage, National Institute of Metrology, China.

Application

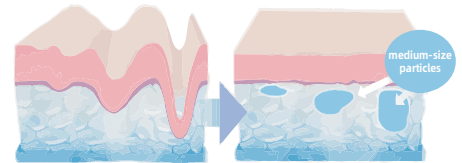


Schematic: Using HA-CL-M to Produce Cross-linked Sodium Hyaluronate Gel Injectables

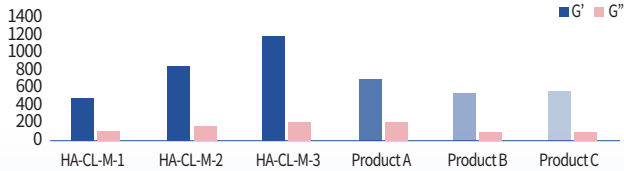


>> Tissue Filling

Hyatru® Cross-linked Sodium Hyaluronate can be used easily to produce traditional dermal fillers or innovative fillers with uniform medium-size particles and medium-to-high viscoelasticity. This fully meets the needs of volume filling, tissue support, and improvement of deep facial folds.

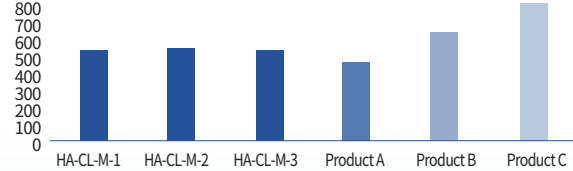


Viscoelasticity of HA-CL-M gels at different concentrations versus commercial products/Pa(0.1Hz)



HA-CL-M gel (sterilization at 121°C for 15 min): HA-CL-M-1: 15 mg/ml HA-CL-M + 2 mg/ml linear HA; HA-CL-M-2: 18 mg/ml HA-CL-M + 2 mg/ml linear HA; HA-CL-M-3: 23 mg/ml HA-CL-M + 2 mg/ml linear HA

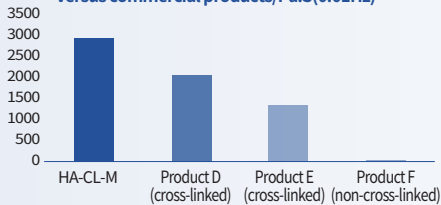
Particle size D50 of HA-CL-M gels at different concentrations versus commercial products/μm



>> Osteoarthritis Treatment (Simulates healthy joint synovial fluid for long-lasting protection)

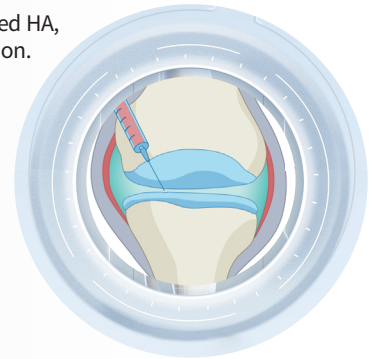
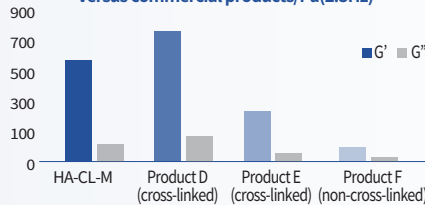
Hyatru® Cross-linked Sodium Hyaluronate makes it easy to produce intra-articular injections of cross-linked HA, offering long-term pain relief and improved joint function by enhancing joint lubrication and shock absorption.

Shear viscosity of HA-CL-M gels versus commercial products/Pa.S(0.01Hz)



HA-CL-M gel (20 mg/ml HA-CL-M, sterilization at 121°C for 15 min)

Viscoelasticity of HA-CL-M gels versus commercial products/Pa(2.5Hz)



Product Information

Product Name

Cross-linked Sodium Hyaluronate(HA-CL-M), pharmaceutical grade (BET<0.05 IU/mg)

Appearance

White or almost white granule, powder or fibrous aggregate

Application

For the manufacture of dermal fillers, intra-articular injections and other innovative cross-linked HA formulations.

Recommended Dosage

1.5~2.5%



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