

Sodium Hyaluronate Moisturizing & lubrication

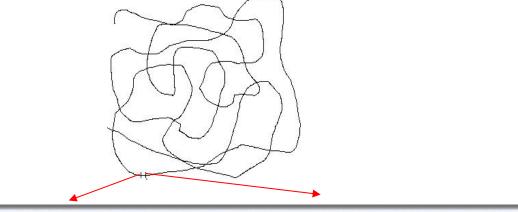
00

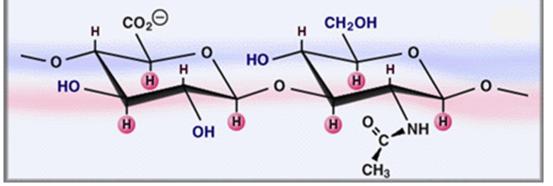


Sodium hyaluronate



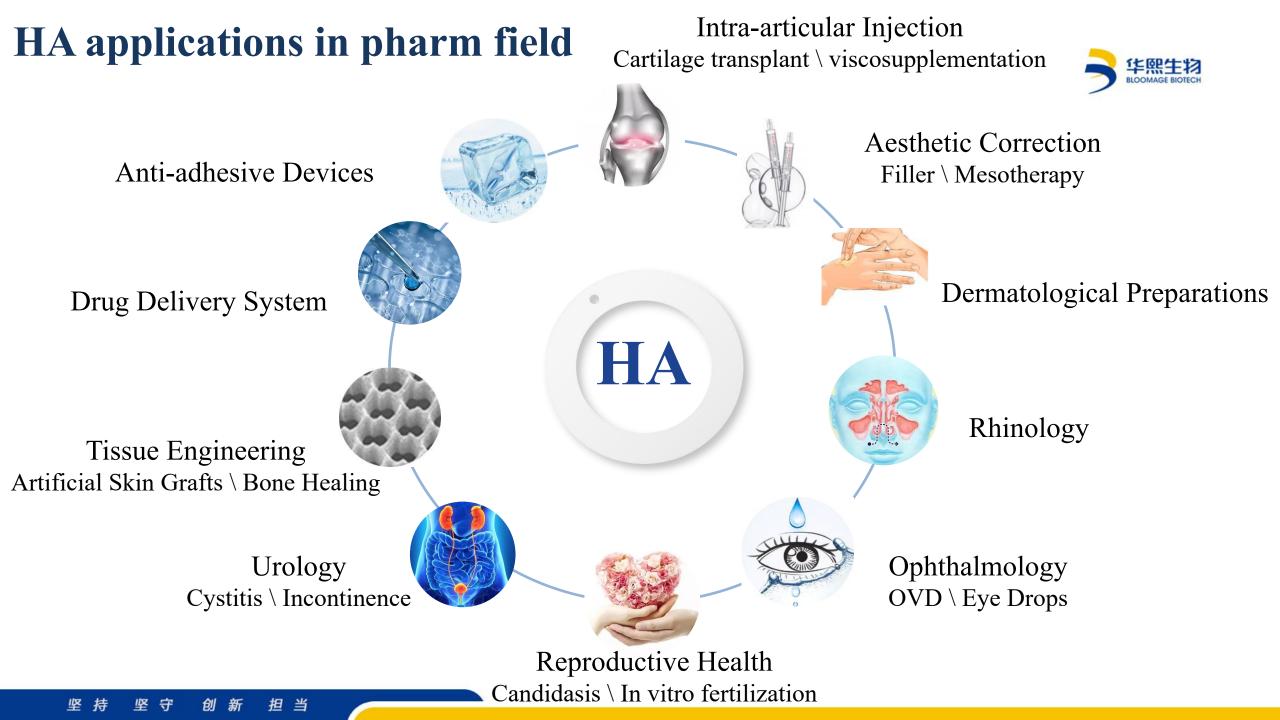
Sodium hyaluronate (Hyaluronic acid, HA) is a high molecular weight unbranched glycosaminoglycan, composed of repeating disaccharides (N-Acetyl-D-glucosamine & D-glucuronic acid).



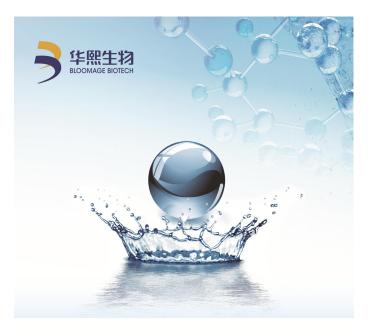


• It is synthesized by in the plasma membrane of cells with the product being translocated out of the cell.

- ♦ It is a widely distributed component of the extracellular matrix of vertebrate tissues.
- Due to its unique physical and chemical properties, HA has a wide range of applications in the fields of chemistry, biology, and medicine.



HyatrueTM



Hyatrue™ Pharmaceutical Grade Sodium Hyaluronate

Application





Natural and Safe

Raw materials and products are safe

- It is produced by bacterial fermentation.
- Non GMO

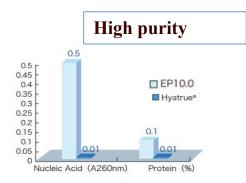


Chart 1. Impurity level of Hyatrue® (Medical Grade)

Quality of Hyatrue[®] is much higher than European Pharmacopoeia standard.

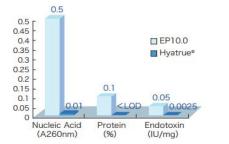
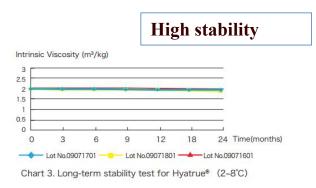


Chart 2. Impurity level of Hyatrue® (Injection Grade)

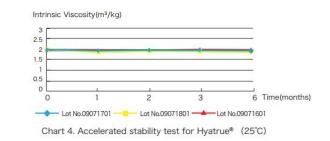


• Hyatrue® has been tested and proven safe and non-toxic.

• Regulatory Compliance



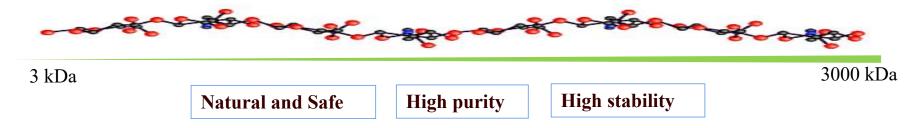
Hyatrue® is stable under its recommended storage and transportation conditions.



Pharma Grade HA



• Wide molecular weight range and precise control on MW- Low MW (3 kDa) to High MW (3000 kDa)



• Different grade HA to different applications- Quality assurance, product competitiveness



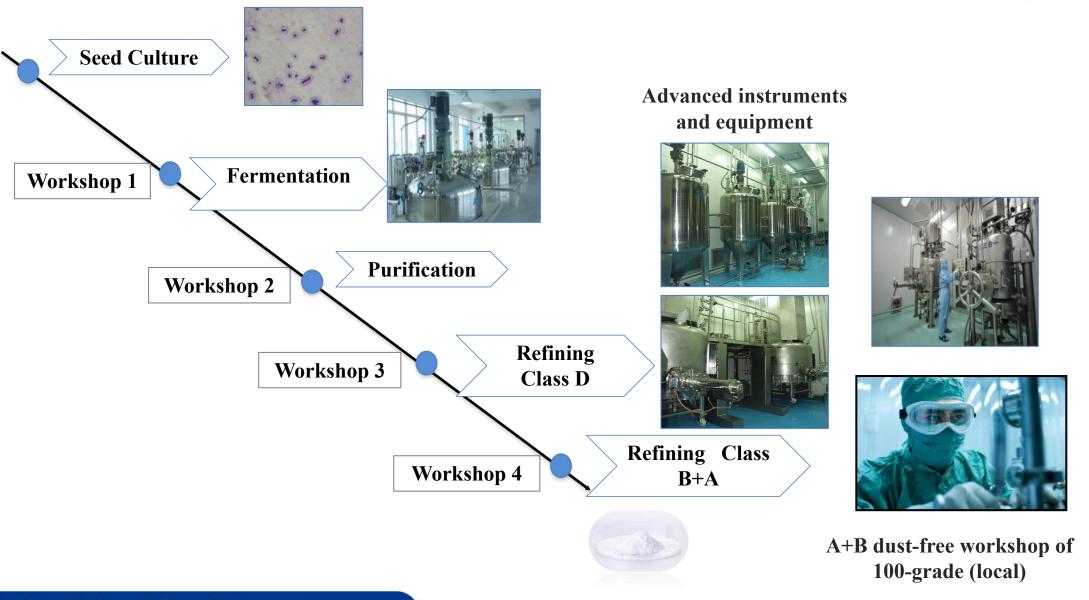
Injection grade HA



Medical grade HA

• Research grade Sodium Hyaluronate oligosaccharides, tetrasaccharide (HA4), hexasaccharide (HA6), octasaccharide (HA8) and decasaccharide (HA10)

Production Process of Sodium Hyaluronate



华熙生物 BLOOMAGE BIOTECH

坚持 坚守 创新 担当

Pharm Grade HA



Pharm Grade Sodium Hyaluronate Hyature®

	Medical grade HA	Injection grade HA	
Product Name	HA-E Grade	HA-EP-N Grade	HA-EP Grade
Refining environment	Refining in Class D	Refining in Class D	Refining in Class B+A
Process Water	Purified Water	Purified Water	Water for Injection
Registration	US DMF; CEP	US DMF; CEP; KDMF	US DMF; CEP; KDMF
Applications	Eye drop, contact lens solution, topical preparations, oral formulation, etc.	Dermal filler, intra-articular injections, OVD, anti- adhesion preparation, etc.	