

## TECHNICAL DATA SHEET

# HyaPoly™ Sodium Hyaluronate

## Cosmetic Grade LMW2

### Chemical Properties

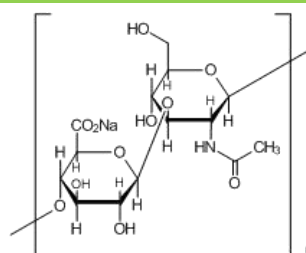
CAS No: 9067-32-7;

EINECS No.: 232-678-0

INCI name: Sodium Hyaluronate

Chemical Formula:  $(C_{14}H_{20}NO_{11}Na)_n$

Molecular Weight: (403.31)n



### Description

Sodium hyaluronate is used to be called as hyaluronic acid. It is a water-soluble salt form of hyaluronic acid to increase stability and lessen the likelihood of oxidization. It is a glycosaminoglycan and long-chain polymer of disaccharide units of Na-glucuronate-N-acetylglucosamine.

### Solubility

It is soluble in water, diluted acids, but insoluble in ethanol, chloroform and ether.

### Specification

Item	Specification	Test Method
Appearance	Fine white or White powder	Visual
Odor	Odorless	Organoleptic
Glucuronic Acid	Min 46.0%	QB/T 4416-2012
Sodium Hyaluronate	Min 95.0%	QB/T 4416-2012
Molecular Weight	20,000~50,000Da	QB/T 4416-2012
pH(0.1% Water Solution)	6.0 ~ 7.5	QB/T 4416-2012
Protein	Max 0.05%	In-house
Limiting viscosity	0.81~1.67dl/g	In-house
Transparency(0.1%Water Solution)	Min 99.0%	QB/T 4416-2012
Residue on ignition	Max 20.0%	CP2010
Loss on drying	Max 10.0%	QB/T 4416-2012
Heavy Metals(as Pb)	Max 20ppm	CP2010
Arsenic	Max 2ppm	ICP-MS
Hemolysis	Negative	In-house
Total plate count	Max 100 CFU/g	QB/T 4412-2012
Total yeast & mold	Max 50 CFU/g	QB/T 4412-2012
<i>Pseudomonas aeruginosa</i>	Negative	In-house

<i>Staphylococcus aureus</i>	Negative	QB/T 4412-2012
<i>Viable hemolytic streptococcus</i>	Negative	In-house

## Ingredients

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Sodium Hyaluronate 20,000~50,000Da

## Labeling

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In the United States and the European Union: HyaPoly™ Sodium Hyaluronate  
Cosmetic Grade LMW2

## Uses Recommendations

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Topical grade Sodium hyaluronate can be used in many kinds of cosmetics, such as cream, milk, water shampoo lotion, etc. HA is one of the best nature moisturizing components used in cosmetics.

## Safety

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This product is safe for the intended use. Avoid ingestion, inhalation of dust or direct contact by applying suitable protective measures and personal hygiene. See Material Safety Data Sheet for full safety information.

## Handling recommendations

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Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid contact with heat, sparks and flame. Avoid ingestion and inhalation.

Keep away from sparks, and flame. Keep away from sources of ignition. Keep container closed when not in use. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances and flammables-area.

## Packaging, Storage & Shelf Life

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Package	1kg/Aluminum foil bag; or according to customers' requirements.
Storage	Store in cool temperature (2°C~10°C) away from moisture and direct sunlight.
Shelf Life	2 years if sealed and stored properly.