

## TECHNICAL DATA SHEET

# HyaPoly™ Sodium Hyaluronate

## Food Grade LMW3

### Chemical Properties

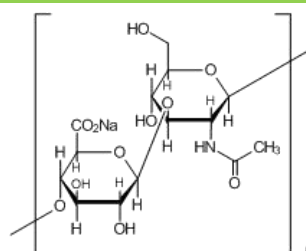
CAS No: 9067-32-7;

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	White powder	Visual
Odor	Odorless	Organoleptic
Glucuronic Acid	Min 46.0%	QB/T 4576-2013
Sodium Hyaluronate	Min 95.0%	QB/T 4576-2013
Molecular Weight	50,000~100,000Da	In-house
pH(0.1% Water Solution)	6.0 ~ 7.5	QB/T 4576-2013
Protein	Max 0.1%	In-house
Bulk density	0.1-0.6 g/cm <sup>3</sup>	In-house
Transparency(0.1%Water Solution)	Min 99.0%	QB/T 4576-2013
Residue on ignition	Max 20.0%	In-house
Loss on drying	Max 10.0%	QB/T 4576-2013
Heavy Metals(as Pb)	Max 20ppm	In-house
Lead	Max 3ppm	ICP-MS
Arsenic	Max 2ppm	ICP-MS
Cadmium	Max 1ppm	ICP-MS
Mercury	Max 0.1ppm	ICP-MS
Total plate count	Max 100 CFU/g	In-house

Total yeast & mold	Max 50 CFU/g	QB/T 4576-2013
<i>E. Coli</i>	Negative	In-house
<i>Salmonella</i>	Negative	QB/T 4576-2013
<i>Pseudomonas aeruginosa</i>	Negative	In-house
<i>Staphylococcus aureus</i>	Negative	In-house
<i>Viable hemolytic streptococcus</i>	Negative	In-house

## Ingredients

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Sodium Hyaluronate 50,000~100,000Da

## Labeling

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In the United States and the European Union: HyaPoly™ Sodium Hyaluronate  
Food Grade LMW3

## Functions

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Oral hyaluronic acid increases the body's levels of hyaluronic acid. Hyaluronic acid, absorbed through the digestion, can make skin moist, smooth, soft and elastic; also can slow the aging, prevent arthritis, atherosclerosis, pulse disorder and the occurrence of the disease such as the brain atrophy.

## Applications

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Oral hyaluronic acid has been widely used in health foods.

## 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.

## 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.