

TECHNICAL DATA SHEET

HyaPoly™ Sodium Hyaluronate

Eye Drop Grade

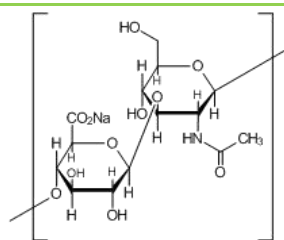
Chemical Properties

CAS No: 9067-32-7;

EINECS No.: 232-678-0

INCI name: Sodium Hyaluronate

Chemical Formula: $(C_{14}H_{21}NO_{11}Na)_n$



Description

Commercial Hyaluronic Acid also called Sodium Hyaluronate, the sodium salt of hyaluronan, is a natural complex saccharide of the glycosaminoglycan family and is a long-chain polymer containing repeating disaccharide units of Na-glucuronate-Nacetylglucosamine. Its random coiled configuration and fluid kinetics characteristic in solutions gives it some important physical characters like moisturizing and lubricating properties, viscoelasticity and pseudo-plasticity and also because of its good biocompatibility, it is widely used in pharmaceuticals, medical devices, cosmetics and dietary supplements.

Solubility

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

Specification

Item	Specification	Test Method
Appearance	White or almost white powder or fibrous aggregate.	Visual
Identification		
Infrared absorption	Consistent with PE reference spectrum of sodium hyaluronate	EP
Reaction of sodium	Positive	
Sodium Hyaluronate	95.0%~105.0%	EP
pH(0.1% Water Solution)	5.0 ~ 8.5	EP
Protein	Max 0.1%	EP
Appearance of solution	Solution is clear; $A_{600nm} \leq 0.01$	EP
Intrinsic viscosity	2.7~3.6m ³ /kg	EP
Loss on drying	Max 20.0%	EP
Chlorides	Max 0.5%	EP
Iron	Max 80ppm	EP
Heavy Metals	Max 20ppm	EP
Bacterial endotoxins	Max 0.5 IU/mg	EP
Total plate count	Max 100 CFU/g	EP

Salmonella Negative
Staphylococcus aureus Negative

In-house
In-house

Labeling

In the United States and the European Union: HyaPoly™ Sodium Hyaluronate
Eye Drop Grade

Safety

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

Wash thoroughly after handling. Use only in a well-ventilated area. Avoid contact with skin and eyes. Avoid ingestion and inhalation.

Packaging, Storage & Shelf Life

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.