

TECHNICAL DATA SHEET

HyaPoly™ Mixed Sodium Hyaluronate

Cosmetic Grade

Chemical Properties

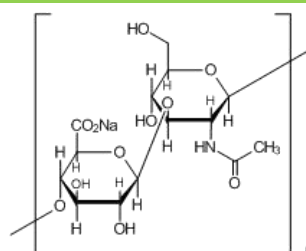
CAS No: 9067-32-7;

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

Hypoly™ Mixed Sodium Hyaluronate cosmetic grade contains 3 specifications of Sodium Hyaluronate cosmetic grade, with different molecular weights and respective percentages: SLMW (3KDa-8 KDa) 30%, MMW (0.8 M-1.5 M Da) 40%, and HMW (1.8 M-3.0 M Da) 30%. This grade combines good permeability together with moisturizing function, mainly used in cosmetics.

Solubility

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

Specification

Item	Specification	Test Method
Appearance	White or almost white powder or granule	Visual
Odor	Odorless	Organoleptic
Glucuronic Acid	Min 46.0%	QB/T 4416-2012
Sodium Hyaluronate	Min 95.0%	QB/T 4416-2012
Average molecular weight	0.8M~1.20M Da	QB/T 4416-2012
Intrinsic viscosity	14.5~19.8 dL/g	In-house
pH(0.5% aq. sol., 25°C)	5.0 ~ 7.5	QB/T 4416-2012
Protein	Max 0.1%	In-house
Transparency	Min 99.0%	QB/T 4416-2012
Residue on ignition	Max 20.0%	In-house
Loss on drying	Max 10.0%	QB/T 4416-2012
Bulk density	0.2~0.4g/cm ³	In-house
Tapped density	0.3~0.6g/cm ³	In-house
Heavy Metals(as Pb)	Max 20ppm	In-house
Arsenic	Max 2ppm	ICP-MS
Hemolysis	Negative	In-house

Total plate count	Max 100 CFU/g	In-house
Total yeast & mold	Max 50 CFU/g	In-house
<i>E. Coli</i>	Negative	In-house
<i>Salmonella</i>	Negative	In-house
<i>Pseudomonas aeruginosa</i>	Negative	In-house
<i>Staphylococcus</i>	Negative	In-house

Ingredients

Sodium Hyaluronate SLMW (3KDa-8 KDa) 30%, MMW (0.8 M-1.5 M Da) 40%, and HMW(1.8 M-3.0 MDa) 30%

Labeling

In the United States and the European Union: HyaPoly™ Mixed Sodium Hyaluronate

Functions

1. It can lock the moisture which is 1000 times of its own weight.
2. It can soften cuticle and enhance the absorption of nutrients.
3. It also can neutralize free radicals, prevent and repair skin damage.
4. It is used in lubrication, film, thickening, stable emulsion.
5. It usually makes skin moist smooth, soft and elastic to slow the aging

Applications

It can be used in many kinds of cosmetics, such as cream, milk, water shampoo lotion, etc.

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.