



HYALURONIC ACID

Basic Information

product name: Hyaluronic acid

CAS No.: 9004-61-9

EINECS No.: 232-678-0

MF: (C₁₄H₂₁NO₁₁)_n

Purity: 92% min

Appearance: white powder or particle /
transparent aqueous solution

Water soluble: soluble in water, insoluble
in organic solvents.

Test Method : HPLC

Specification: Food/cosmetic grade
(different molecular weight)



Product Profile

Hyaluronan is the macromolecular mucopolysaccharide composed of D-glucuronic acid and N-acetylglucosamine. Unlike other mucopolysaccharides, it contains no sulfur. The commercial HA is commonly a sodium salt, called sodium hyaluronate, habitually called hyaluronic acid. Its molecular weight is from several ten thousand to several million. Its hyaluronic molecules can carry more than 500 times the moisture content, making it one of the best moisturizers in the world and widely used in cosmetics and health products.

Specification

15,000 - 50,000Dalton

50,000 - 200,000Dalton

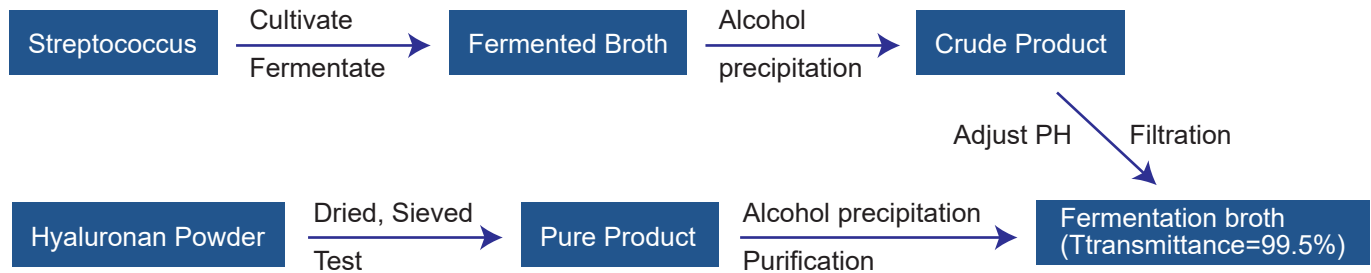
200,000 - 1,400,000Dalton

1,400,000 - 1,600,000Dalton

1,600,000 - 2,000,000Dalton

More than 2,000,000Dalton

Manufacturing Technique



Application

1. Food Industry:

Food grade sodium hyaluronate can make skin moist, smooth, soft and elastic through digestion and absorption and make people energetic and youthful; and delay senility, prevent arthritis, brain atrophy and other diseases.

2. Cosmetic Industry:

There are kinds of Molecular Weight, which can be used into cosmetics products.

Skin care products: cream, lotion, toner, essence, gel, facial mask, etc

Cleaning products: facial cleanser, body wash, etc

Hair products: shampoo, conditioner, conditioner, hair gel,

(1) <10,000Da (Super Low Molecular Weight):

It has a molecular weight of less than 10kDa, an average size of less than 25nm, and an intercellular space of about 40-50nm. So it is more likely to penetrate deep into the skin and has the best effect of moisturizing and anti-aging.

(2) 10,000Da-200,000Da (Low Molecular Weight) It has better moisture effect than regular molecular weight.

(3) 200,000Da-1,600,000Da (Regular Molecular Weight)

It can retain moisture, keep the skin firm, and prevent wrinkles by adding volume to the skin.

(4) >1,600,000Da (High Molecular Weight)

It can keep moisturizing for longer time, and repair skins.

Function

1. People take hyaluronic acid for various joint disorders, including osteoarthritis.
2. The FDA has approved the use of hyaluronic acid during certain eye surgeries including cataract removal, corneal transplantation, and repair of a detached retina and other eye injuries.
3. Hyaluronic acid is also used as a lip filler in plastic surgery.
4. Hyaluronic acid is used to the skin for healing wounds, burns, skin ulcers, and as a moisturizer. It helps to retain moisture, keeping the skin firm, and preventing wrinkles.

Recommended Usage: 0.1-1%

Transportation: express delivery or logistics

Storage: Stored under low temperature drying conditions

Packing: 25kg/carton for bulk goods, 1KG/ foil bag for sample

Shelf life: 2 years