UNILONG

聚龙新材料

Unilong Industry Co.,Ltd.

透明质酸钠专业生产商

Sodium Hyaluronate

Professional Manufacturer

Product Category

01 **Cosmetic Grade Sodium Hyaluronate**
(1000 DA-2.5 Million DA)

02 **Food Grade Sodium Hyaluronate**
(0.1 Million DA - 2.0 Million DA)

03 **Pharma Grade Sodium Hyaluronate**

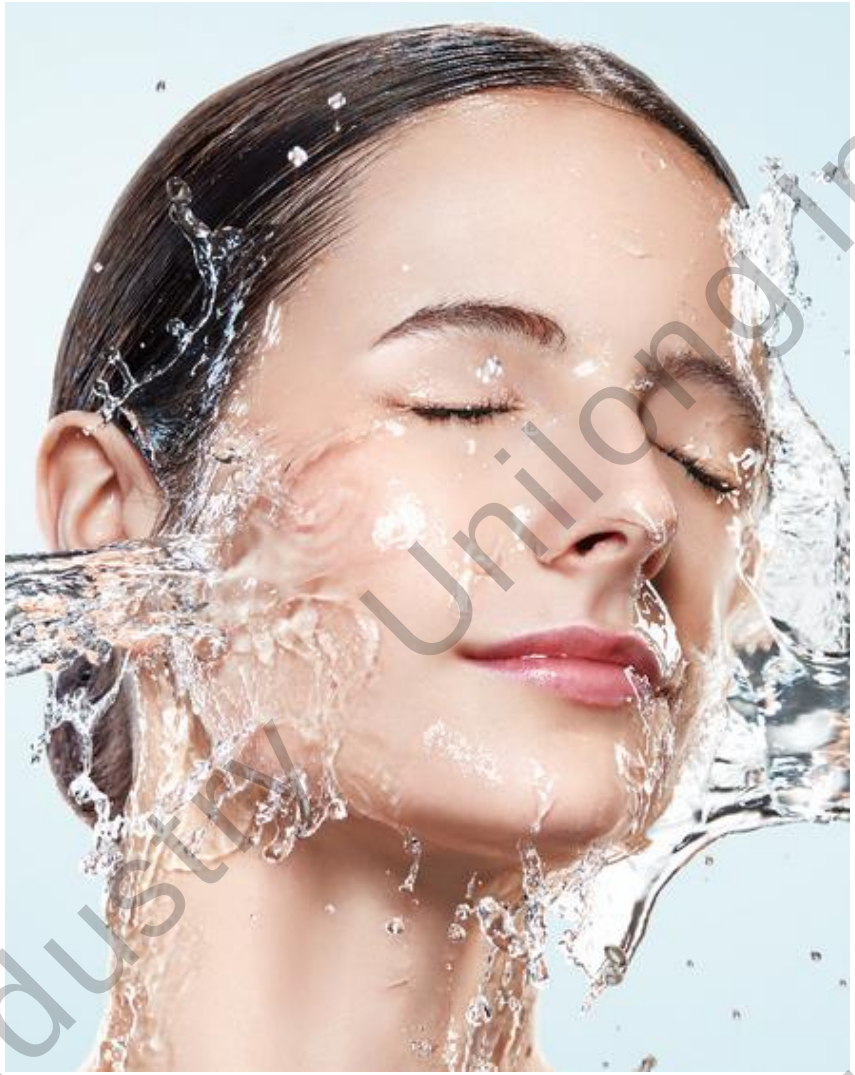
04 **Derivative**

01

Cosmetic Grade Sodium Hyaluronate

Type	Molecular Weight	Function
Oligo Sodium Hyaluronate	3,000-5,000 Da	Deep absorption and nourishment of skin
	5,000-10,000 Da	
Low Molecular Weight Sodium Hyaluronate	0.01-0.1M Da	Long-lasting moisturizing and wrinkle-resistant Cosmetology
	0.1-0.4M Da	
	0.4-1.0M Da	
Intermediate Molecular Weight Sodium Hyaluronate	1.0-1.5M Da	Excellent Moisturizing Property, Slow Release & Stable Emulsification
High Molecular Weight Sodium Hyaluronate	1.5-1.8M Da	Excellent Moisturizing & Lubricating Properties Excellent Sunscreen Repair
	1.8-2.0M Da	
	2.0-2.5M Da	

Cosmetic Grade Sodium Hyaluronate



Item	Standard
Appearance	White or like white powder or granules
Glucuronic acid content(%)	≥45.0
Sodium hyaluronate content(%)	≥95.0
Average molecular weight(KDa)	Actual Measured value
Absorbance	≤0.25
Transparency(%)	≥99.0
Intrinsic viscosity value(dL/g)	Actual Measured value
Dry weight loss(%)	≤10.0
pH	5.0-8.5
Heavy metal(in lead,mg/kg)	≤10
Protein content(%)	≤0.10
Total Colony Number(CFU/g)	≤100
Fungi and yeasts (CFU/g)	≤50
Escherichia Coli /g	Negative
Coliforms /g	Negative
Staphylococcus Aureus	Negative
Pseudomonas Aeruginosas	Negative

02

Food Grade Sodium Hyaluronate

Studies have found that long-term administration of HA can effectively improve skin moisture, delay aging and improve joint function. HA and glue protein,vitamin and chondroitin sulfate can be used in health food,beverage, jelly & soon.

Molecular Weight	Function
0.1-0.2M Da	Oral hyaluronic acid can directly supplement the missing hyaluronic acid in the body, and can increase the precursor substances of hyaluronic acid synthesis in the body, and promote the synthesis of hyaluronic acid.
0.2-0.4M Da	
0.4-0.6M Da	
0.6-0.8M Da	
0.8-1.2M Da	
1.2-1.5M Da	
1.5-2.0M Da	

Food Grade Sodium Hyaluronate

Item	Standard
Appearance	White or like white powder or granules
Glucuronic acid %	≥44.4
Sodium Hyaluronate %	≥92.0
Transparency %	≥99.0
pH	6.0-8.0
Moisture Content %	≤10.0
Molecular Weight Da	Measured value
Intrinsic Viscosity dL/g	Measured value
Protein %	≤0.1
Buik Density g/cm3	Measured value
Ash %	≤13.0
Heavy Metal(as Pb) mg/kg	≤10
Aerobic plate count CFU/g	≤100
Moulds&yeasts CFU/g	≤50
Staphylococcus aureus	Negative
P.Aeruginosa	Negative

03

Pharma Grade Sodium Hyaluronate

Type
Eye drops grade Sodium Hyaluronate
Injection Grade Sodium Hyaluronate
Crosslinked Sodium Hyaluronate

Pharma Grade Sodium Hyaluronate

Pharmaceutical grade sodium hyaluronate products can be used as raw materials or auxiliary materials of drugs or medical devices for ophthalmic preparations, intra-articular preparations, postoperative anti-adhesion agents, wound healing external preparations and soft tissue fillers and other medical products, which are divided into two specifications: **Eye drops grade and Injection grade**.

Eye Drops Grade Sodium Hyaluronate

Eye Drops Grade Sodium Hyaluronate	Lubricate, moisturize, improve efficacy, relieve dry eye, promote cornea, conjunctival injury healing, etc	Eye drops, eye moisturizer, contact lens care solution, eye wash solution, cavity lubricant, etc
	Promote wound healing	Topical preparations (gels, film agents, etc.)
	Drug or cell carrier/matrix	Eye drops, cell culture, external preparations, etc
	Repair mucosal damage, cartilage damage, etc	Oral pharmaceutical preparation

Injection Grade Sodium Hyaluronate

Injection Grade Sodium Hyaluronate	Viscoelastic, protects the corneal endothelium	Adhesives for eye surgery
	Lubricity, viscoelasticity, promote cartilage repair, inhibit inflammation, relieve pain, etc	Intra-articular injection
	Sodium hyaluronate and its derivatives have high molecular inertness, good biocompatibility and degradability	Post-operative anti-adhesion agent, medical plastic cosmetic dermal filler, tissue engineering scaffold material

04

Derivatives

List of Derivatives
Hydrolyzed Hyaluronic Acid CAS 9004-61-9
Oil Soluble Sodium Hyaluronate Oil Dispersed Sodium Hyaluronate
Hydroxypropyltrimonium Hyaluronate CAS 1714127-68-0
Sodium Acetylated Hyaluronate CAS 158254-23-0
1% Sodium hyaluronate solution
4D Sodium Hyaluronate
Crosslinked Sodium Hyaluronate CAS 105524-32-1
Zinc Hyaluronate
Sodium Polyglutamate CAS 28829-38-1

Hydrolyzed Hyaluronic Acid CAS 9004-61-9

Hydrolyzed Hyaluronic Acid and hydrolyzed sodium hyaluronate are not the same product, and the PH of hydrolyzed hyaluronic acid sold on the market is generally between 2.5 and 5.0.Some people think that the molecular weight must be below 10kDa to become hydrolyzed hyaluronic acid, but some people think that the molecular weight below 50kDa is hydrolyzed hyaluronic acid.

Hydrolyzed Hyaluronic Acid can soften the stratum corneum and accelerate skin metabolism. Inhibit oil secretion and other functions.The molecular weight of hydrolyzed hyaluronic acid is relatively low, which can play the effect of transdermal absorption, deeply nourish the skin, improve skin elasticity and reduce wrinkles.

Hydrolyzed Hyaluronic Acid CAS 9004-61-9

Application: Can be widely used in cosmetics and care products, such as serum, lotion, mask, eye cream, sunscreen, spray and so on.

Oil Soluble Sodium Hyaluronate/Oil Dispersed Sodium Hyaluronate

Oil Soluble Sodium Hyaluronate/Oil Dispersed Sodium Hyaluronate is made from ultra-low molecular weight sodium hyaluronate (HA) and plant-based oils through a special process. The main functional ingredient is the uniform dispersion of ultra-low molecular weight HA in the oil, allowing water-soluble HA to be perfectly applied to makeup products mainly composed of oily ingredients, endowing base makeup with moisturizing and skincare effects, and lip makeup with moisturizing, repairing, and lip filling effects.

Oil Soluble Sodium Hyaluronate/Oil Dispersed Sodium Hyaluronate

Application: Can be used in lipstick, lip glaze, foundation make-up, air cushion and other color cosmetics.

Hydroxypropyltrimonium Hyaluronate CAS 1714127-68-0

Regarding sodium hyaluronate, its main characteristic is its ultra-high hydration andmoisturizing properties. However, due to its carboxyl functional groups, hyaluronate isnegatively charged, and the surface of human skin and hair is also negatively chargedAs both are negatively charged, unmodified hyaluronate is not easily adsorbed by humanskin and hair, After rinsina with water, most of the sodium hyaluronate is washed away.resulting in poor moisturizing performance, Thus, it cannot achieve a good moisturizing effect.

Hydroxypropyltrimonium Hyaluronate solves the problem of insoluble anions and cationiccomponents in sodium hyaluronate, which is prone to charge reactions.The cationic hyaluronic acid can be well adsorbed on the surface of hair or skin, and is washablewithout affecting the moisturizing properties of sodium hyaluronate.

Hydroxypropyltrimonium Hyaluronate CAS 1714127-68-0

Application:

Hair care products: shampoo, hair cream, conditioner, body lotion, etc

Cleaning products: clothing finishing agents, facial cleansers, facial cleansers, body washes, etc

Sodium Acetylated Hyaluronate CAS 158254-23-0

Sodium Acetylated Hyaluronate is a derivative of sodium hyaluronate(HA), which is obtained by acetylation reaction of sodium hyaluronate. The hydroxyl group in the sugar structural unit of conventional sodium hyaluronate is acetylated, making hyaluronic acid both hydrophilic and lipophilic. It can prolong the half-life of sodium hyaluronate for hydration and moisturization, and delay the degradation rate of sodium hyaluronate in the human body. Thus, it can double the moisturizing effect, repair the stratum corneum barrier, and improve skin elasticity. It can also improve dry and rough skin, making the skin soft and elastic.

Sodium Acetylated Hyaluronate CAS 158254-23-0

Application:

Sodium Acetylated Hyaluronate can play many roles in cosmetics. For example, water retention and skincare; Prevent and repair skin cell damage; Nourish the skin and delay skin aging; Good lubricant and smooth skin feel; Thickening and stabilizing emulsification, etc. Acetylated sodium hyaluronate can be used in the following products:

Cleaning cosmetics: facial cleanser, facial cream, cleaning soap, shower gel, etc.
Skin care products: essence liquid, make-up water, skin care lotion, toner, facial mask, cream, UV protection products, etc.

1% Sodium Hyaluronate Solution

1% Sodium Hyaluronate Solution is made by dissolving pure sodium hyaluronate powder in a 1% additive ratio, combined with an anti-corrosion system. 1% Sodium Hyaluronate Solution is colorless transparent solution, can be dissolved in injection water, which can be directly added to the washing product without dissolutionand is convenient to use.

1% Sodium Hyaluronate Solution

Application: Convenient for customers to use directly, it can be widely used in beauty and daily chemical products.

4D Sodium Hyaluronate

4D Sodium Hyaluronate contains four types of sodium hyaluronate in one, and different molecular weights of Sodium Hyaluronate can accurately locate the surface, stratum corneum, epidermal layer, and dermis of the skin, instantly exerting four-dimensional moisturizing effects. The outer layer replenishes water, while the inner layer locks water, forming a four-dimensional water storage network.

4D Sodium Hyaluronate

Application: 4D Sodium Hyaluronate , good compatibility, high stability, can be widely used in skin care and beauty cosmetics, added to cream, lotion, toner, serum, facial cleanser, body wash, shampoo, mousse and lip balm and other products.

Crosslinked Sodium Hyaluronate

Crosslinked Sodium Hyaluronate is a cross-linked HA obtained throughcross-linking technology, with a dense network structure. Cross-linking reaction Local aggregation and folding of HA macromolecules should be avoided, which can combine with more water molecules to achieve membrane formation and hydration on the skinsurface Protective effect. Crosslinked Sodium Hyaluronate is uniformly covered on the skin surface to form a breathable protective film, which enhances the skin barrier function, reduces the evaporation of water inside the skin, and resist the damage to the skin by external factors such as ultraviolet rays, dust and so on.

Crosslinked Sodium Hyaluronate

Application:

Crosslinked Sodium Hyaluronate can be applied to cosmetics And hairproducts can also be used as delivery systems for water-soluble or oil-soluble activesubstances.

Can be used for moisturizing, anti-aging, anti-pollution and other effects of cream, lotion, essence, water, mask and other products.

Cross linked sodium hyaluronate for pharmaceutical purposes also has the effects of reshaping face shape, plastic surgery, wrinkle removal, and lip enhancement.

Zinc Hyaluronate

Zinc is an essential microelement in the human body, and widely distributed in tissues of life. Zinc plays an important role in skin diseases, immune function, wound healing, growth and development, and hair growth.

Zinc hyaluronate has dual effects which include the moisturizing, repairing, and nourishing effects of hyaluronic acid and the antibacterial,soothing, antioxidant and other effects of zinc.

Zinc Hyaluronate

Application:
Zinc hyaluronate is Easily soluble in water, can be directly added to the water phase.

Zinc hyaluronate can be used in all kinds of skin care products, body care products to soothe, repair, moisturize, control oil and so on. It can be added to lotion, cream, essence, mask, facial cleanser, toothpaste, mouthwash, shampoo and other products with moisturizing and skin protection functions.

Sodium Polyglutamate CAS 28829-38-1

Sodium polyglutamate is found in the traditional food natto. It is a sticky amino acid anionic polymer and is usually also called γ -polyglutamic acid. Sodium polyglutamate is a homogeneous polypeptide biopolymer with glutamic acid as the structural unit, forming amide bonds through α -amino and γ -carboxyl groups. Due to the fact that each structural unit of glutamic acid contains multiple hydrophilic groups, a large number of hydrogen bonds can be formed within the polymer chain or between molecules, making polyglutamic acid have excellent water absorption and moisture retention properties, and thus become an outstanding natural moisture retention component.

Sodium polyglutamate with a higher molecular weight provides a smooth skin feel. It can promote the accumulation of natural moisturizing factors, enhance the skin's water retention capacity, and work synergistically with HA to improve skin elasticity and softness.

Sodium Polyglutamate CAS 28829-38-1

Application:

Can be widely applied in various product and cosmetic formulas, such as creams, lotions, essences, masks, cleansers, hair care products, and body care products.

If you have any questions or needs regarding sodium hyaluronate, please feel free to contact UNILONG at any time.

Contact:Caroline

Email:sale07@unilongindustry.com

Tel/WhatsApp:+86 18053149984