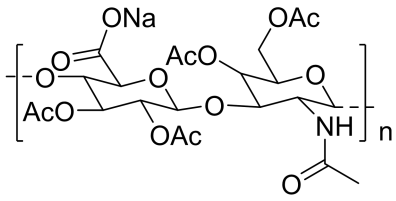
四川利源博科技有限公司
Sichuan Liyuan Bo Technology Co., LTD

TDS

Product Name: Sodium Acetylated Hyaluronate

INCI Name: Sodium Acetylated Hyaluronate

Structural Formula：



Molecular Formula： （C_{14}+2xH_20+2xNO_{11}+xNa）n

Note： x ---Degree of acetylation

Molecular Weight Specification： 10KDa

CAS No.： 158254-23-0

List of Main Ingredients

INCI name	English name	CAS No.	Ratio of ingredient
Sodium Acetylated Hyaluronate	Sodium Acetylated Hyaluronate	158254-23-0	100%

1. Product Brief Introduction

This product is a derivative of hyaluronic acid; it is applied in the field of cosmetics.

2. Product Specification

Product name	Sodium Acetylated Hyaluronate		
Product code	BP1668	CAS No.	158254-23-0
Ingredient name	Sodium Acetylated Hyaluronate	INCI Name	Sodium Acetylated Hyaluronate
Molecular weight specification	10KDa	Shelf life	2 years

Storage condition	Store in an airtight container, at room temperature, in a dry and well-ventilated place.

Test Item	**Specifications**	**Test method**
Furfural color reaction	Positive reaction	In-house specification
Identification (IR)	Characteristic absorption peaks	CP 2025
Appearance	White to off-white powder	By observing
Solubility（10mg/ml）	Soluble in the water, the aqueous solution is colorless and transparent.	In-house specification
Odor	Characteristic odor	By smelling
pH (1% aqueous solution)	4.0-8.0	Cosmetics Safety Technical Specifications 2015
Acetyl content（calculated by anhydrous substance）	23%～30.2%	In-house specification
Conductivity (1% aqueous solution)	≤1200us/cm	CP 2025
Loss on drying	≤10.0%	CP 2025
Free acetic acid	<0.5%	In-house specification
Intrinsic viscosity	0.1～1.0dl/g	CP 2025
Residue on ignition	<15%	CP 2025
Heavy metals		
Total heavy metals	≤20ppm	CP 2025
Lead	≤10ppm	Cosmetics Safety Technical Specifications 2015
Arsenic	≤2ppm	
Mercury	≤1ppm	
Microbial test		
TAMC	≤100 cfu/g	Cosmetics Safety Technical Specifications 2015
TYMC	≤10 cfu/g	
Thermotolerant Coliforms	Absent /g	
Staphylococcus aureus	Absent /g	
Pseudomonas aeruginosa	Absent /g	

3. Production Introduction

Sodium Acetylated Hyaluronate is a derivative of sodium hyaluronate. It is obtained through the acetylation reaction of sodium hyaluronate and possesses both hydrophilic and lipophilic properties.

Sodium Acetylated Hyaluronate has the functions of high skin compatibility, efficient and long-lasting moisturization, softening the stratum corneum, strong skin softening effect, enhancing skin elasticity, and improving rough skin conditions. It has a refreshing and non-greasy sensation and can be widely used in cosmetics such as lotions, masks, and essences.

4. Mechanism of Action

Sodium Acetylated Hyaluronate is obtained by the acetylation reaction of sodium hyaluronate. It has the following effects:

① High "skin absorption" property: It has excellent skin affinity and can firmly adhere to the skin, exerting long-lasting moisturizing and softening effects.

② Double moisturizing capacity: It can exert double moisturizing ability and can quickly combine water in a short period of time, increasing the skin's water content, making the skin continuously moist for 12 hours.

③ Repairing the skin barrier: It not only promotes the proliferation of epidermal cells, but also repairs damaged epidermal cells, enhances the barrier function of the epidermal keratin layer, and improves the natural resistance of the skin.

5. Product Introduction

This product has no pollution to environment.

6. Use

This product is used in various cosmetic formulations.

Recommendation of addition amount: 0.1‰-1%

Disclaimer

We will, to the extent possible and within the scope of public disclosure, provide our customers with suggestions on application technical knowledge. However, we do not assume any obligations. Our suggestions are for reference only and do not carry any legal liability. If necessary, customers are advised to conduct necessary testing and verification of the product.