



山东海贝尔生物医药有限公司
Shandong Habier Biopharma Co., Ltd.



山东海贝尔生物医药有限公司位于孔子故里--山东省曲阜市。海贝尔是中国透明质酸钠的领先生产商与供应商。近20年来，我们专注于化妆品原料、医药原料及营养保健品原料的研发、生产与销售。

海贝尔生物已通过ISO9001质量管理体系认证、ISO22000食品安全管理体系认证、HACCP体系认证、ISO16128 天然成分认证、Kosher犹太认证和Halal清真认证，并通过了欧盟Ecocert & Cosmos有机认证。

Shandong Habier Biopharma Co., Ltd located in Shandong Province the city of Qufu which is the hometown of Confucius. Habier is a leading manufacturer and supplier of Sodium Hyaluronate in China. We specialize in the research, manufacture and sales of a wide variety of cosmetics ingredients, pharmaceutical ingredients, nutritional and health supplement ingredients for almost 20 years.

Our company has passed ISO9001, ISO22000 and HACCP certified. HyaNOX[®] Sodium Hyaluronate is Kosher, Halal and ISO16128 certified. We also get Ecocert and Cosmos Organic Approval.

透明质酸钠简介

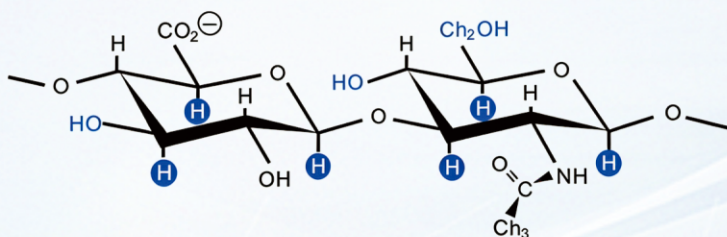
Introduction of SH

·透明质酸(Hyaluronic Acid, HA)又名玻尿酸、玻璃酸,商品透明质酸通常为透明质酸钠(Sodium Hyaluronate, SH)。它广泛存在于人和脊椎动物组织的细胞外基质和某些链球菌的荚膜中,其分子结构为N-乙酰氨基葡萄糖和D-葡萄糖醛酸双糖单位重复组成的直链高分子多聚糖。透明质酸因其具有独特的保水、润滑和粘弹性以及良好的生物相容性,被广泛地应用于化妆品、保健食品美容填充手术和医药领域。

·来自海贝尔生物的HyaNox[®]是生物发酵来源,无动物成分,安全可靠。

·HyaNox[®] is the standardized natural Hyaluronic Acid available in different salt form from Habier. HyaNox[®] (Sodium Hyaluronate) also called as hyaluronan or HA, is a linear polysaccharide composed of repeating disaccharide units of D-glucuronic acid and N-acetyl-D-glucosamine linked by a $\beta(1\rightarrow3)$ glucosidic bond, with a wide range of molecular weights up to several million dalton, It is widely known for its remarkable ability to form a highly viscoelastic solution in aqueous media.

Product name: Sodium Hyaluronate
Molecular formula: $(C_{14}H_{20}NO_{11}Na)_n$
Molecule weight: 500-3,000,000 Da
CAS No.: 9067-32-7



PRODUCTION PROCESS OF SODIUM HYALURONATE



透明质酸钠应用领域

Application fields of sodium hyaluronate



SH在化妆品中的应用

The functions of HyaNox® in cosmetics

由于透明质酸钠有着优秀的保湿润滑性,已被国内外许多化妆品用作基质,广泛应用在霜、膏、粉、乳液和香波等多种美容化妆品中,成为高级化妆品不可或缺的成分。

Since SH has excellent moisturizing properties, it has been used as a substrate by many cosmetics at home and abroad, and is widely used in various cosmetic products such as creams, creams, powders, lotions and shampoos, and is an indispensable component of high-grade cosmetics.

- 保湿护肤
- 皮肤细胞损伤的预防和修复
- 营养皮肤,延缓皮肤衰老
- 良好的润滑性和滑爽的肤感
- 增稠和稳定乳化
- Protect skin and keep water in the skin
- Repair and prevent against the injured skin
- Nourishing the skin anti-ageing
- Maintain skin good moisture and lubrication
- Thicken emulsion and stabilize emulsification

不同分子量的SH在化妆品中的应用HyaNox® with different molecular weight applied in cosmetics SH作为国际上公认的天然保湿因子,可以应用于膏霜、乳液、化妆水、精华素面膜、洗化等化妆品中,根据HA添加和分子量的不同,在化妆品中的特性也相应不同:

As a natural moisturizing factor SH can be applied to many cosmetics products, such as cream, emulsion, astringent serum, facial mask, etc. SH in cosmetics have different functions according to its different dosage and molecular weight:

不同分子量透明质酸钠 Type	建议分子量范围 M.W Range	功效 Efficiency
高分子量 High M.W	150万以上 >1500kDa	高效锁水,促进组织细胞再生 High water retention, promote the regeneration of the cell tissue.
常规分子量 Normal M.W	50万 - 150万 500kDa - 1500kDa	长久保湿,良好的肤感 Keep skin moisture and lubrication for a long time.
低分子量 Low M.W	5万- 20万 50kDa - 200kDa	易渗透皮肤,营养肌肤 Easily absorbed by skin, nourishing the skin.
超低分子量 Super Low M.W	小于1万 <10kDa	透皮吸收,深层保湿 Trans-dermal absorption, deep hydrating.

SH在保健食品中的应用

Food grade HyaNox®

透明质酸钠作为一种重要的营养食品添加原料,被广泛应用到保健食品中。目前,透明质酸钠在欧美、日本等国家被广泛应用于美容保健食品中,深受消费者青睐。

As an important ingredient for dietary supplements, SH have been widely applied in health and beauty food. At present, SH is widely used in cosmetology and health food in America, Europe and Japan. It is greatly welcome by the consumers.

口服透明质酸钠的作用

- ◎由内到外滋养肌肤,使其光滑、富有弹性,平复皱纹
- ◎“天然减震器”,缓解炎症、疼痛,使身体各关节、部位更具弹性,活动灵活自如。
- ◎细胞提供天然屏障,防止细病毒侵入
- ◎推荐使用剂量: 20-200毫克/天。
- ◎使用剂型: 片剂、胶囊、口服液等。

Taken HyaNox® orally can

- ◎Nourish skin from inner to the outside, make it smooth, elastic and eliminate wrinkle.
- ◎As a nature "shock absorbers", SH can relieve inflammation, pain, make all body site and joints more flexible and elastic
- ◎ Provide a natural barrier for cells to prevent the intrusion of bacteria and virus.
- ◎Recommended dosage: 20-200mg/day.
- ◎Available forms: Tablets, Capsules, Oral Solution

Type	M.W Range	Efficiency
Health Food	500kDa - 1500kDa, Customized molecular weight for your application	Tablets, capsules and oral solution, with other ingredients like Collagen, Vitamins, Chondroitin Sulfate, Glucosamine and Plant extracts.
Energy Drinks		Oral solution, beverage, wine, etc.

SH在医药方面的应用

Pharma grade HyaNox®

透明质酸钠是构成人体细胞间质、眼玻璃体、关节滑液等结缔组织的主要成分，在体内发挥保水、维持细胞外空间、调节渗透压、润滑、促进细胞修复的重要生理功能。透明质酸钠分子中含有大量的羧基和羟基，在水溶液中形成分子内和分子间的氢键，这使其具有强大的保水作用，可结合自身400倍以上的水；在较高浓度时，由其分子间作用形成的复杂的三级网状结构，其水溶液又具有显著的粘弹性。透明质酸钠作为细胞间基质的主要成分，直接参与细胞内外电解质交流的调控，发挥物理和分子信息的过滤器作用。大分子透明质酸钠对细胞移动、增殖、分化及吞噬功能有抑制作用，小分子透明质酸钠则有促进作用。透明质酸钠具有独特理化性质和生理功能，在医学方面已得到广泛应用。

• 1) 滴眼液级透明质酸钠

适用范围：滴眼液、润眼液、洗眼液、隐形眼镜护理液、腔道润滑剂等。

作用：润滑、保湿、提高药效、缓解干眼症、促进角膜、结膜损伤愈合等。

• 2) 注射级透明质酸钠

适用范围：眼科手术黏弹剂、关节内注射液、术后防粘连剂、医疗整形美容真皮填充剂。

作用：黏弹性、保护角膜内皮、润滑性、黏弹性、促进软骨修复，抑制炎症、缓解疼痛等。

With the development of medical technology, Sodium Hyaluronate has been more and more widely used in medical applications. Sodium Hyaluronate is an important component of intercellular substance, eye vitreous body, joint fluid and other connective tissue.

• 1) Eye drop grade

Range of application:

Eye drops, contact lenses solution, eye lotion, cavitary lubricant etc.

Effect:

Lubricate, moisturize, improve efficacy, alleviate dry eyes, promote cornea and conjunctival injury healing etc.

• 2) Injection grade

Range of application:

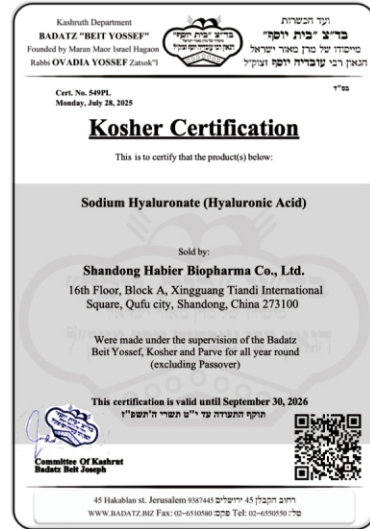
Eye surgery adhesion agent, joint injection, postoperative adhesion agent, medical cosmetic surgery dermal fillers

Effect:

viscoelasticity, protection of the corneal endothelial, lubricity, viscoelasticity, promote cartilage repair, control inflammation, relieve pain etc.

公司资质

Company Qualifications



SPECIFICATION

透明质酸钠规格单

Item 项目	Standard 标准
Appearance 外观	White or almost white powder or granule 白色或类白色粉末或颗粒
Identification 鉴别	A. Infrared absorption spectrophotometry 红外光图谱对照
	B. It gives reaction (a) of sodium 钠离子反应
Solubility 溶解性	Sparingly soluble or soluble in water, practically insoluble in acetone and in anhydrous ethanol 微溶或可溶于水, 几乎不溶于丙酮和无水乙醇
Sodium Hyaluronate 透明质酸钠	≥95.0%
Appearance of Solution 透光率	A _{600nm} ≤ 0.01
Nucleic Acid 核酸	A _{260nm} ≤ 0.5
pH pH 值	5.0 - 8.5
Bulk Density 堆积密度	0.10 - 0.80 g/cm ³
Molecular Weight 分子量	According to Customer's requirement 根据客户要求
Protein 蛋白质	≤0.1%
Loss on drying 干燥失重	≤10%
Residue on Ignition 灼烧残渣	≤20%
Chlorides 氯	≤0.5%
Heavy metal 重金属	≤10ppm
Arsenic 砷	≤2ppm
Bacteria Count 菌落总数	≤100CFU/G
Molds & Yeast 霉菌和酵母菌总数	≤10CFU/G
Escherichia Coli 大肠杆菌	Negative 不得检出
Staphylococcus aureus 金黄色葡萄球菌	Negative 不得检出
Pseudomonas aeruginosa 铜绿假单胞菌	Negative 不得检出
Endotoxin Level 内毒素	≤0.5IU/mg (Eye drop grade 滴眼液级) ≤0.05IU/mg (Injection grade 注射级)



山东海贝尔生物医药有限公司

地址: 山东省曲阜市星光天地国际广场A座16楼

电话: 0537-4445008

传真: 0537-4445008

邮箱: sales@habier.com

网站: www.habier.com

Shandong Habier Biopharma Co., Ltd.

Add: 16th Floor, Block A, Xingguang Tiandi International Square,
Qufu city, Shandong, China 273100

Tel: +86-537-4445008

Fax: +86-537-4445008

Email: sales@habier.com

Website: www.habier.com