



Bloomage Freda Biopharm Co.,Ltd. (Formerly Shandong Freda Biopharm Co.,Ltd.) was established in 1998 by Bloomage International Investment Group Inc. and Shandong Freda Pharmaceutical Group Corporation. For the past 20 years, the company has focused its efforts on R&D, production and sales of Sodium Hyaluronate (HA).

In 2008, the parent company Bloomage Biotechnology achieved its listing on the main board of Hong Kong exchange market (stock code: 00963.HK). Our different grades of HA available are complying with the international pharmaceutical, food and cosmetic regulations.



Introduction

Bloomage Freda Biopharm Co.,Ltd. is managed strictly in accordance with GMP and ISO 9001 quality management systems to ensure the reliability and quality of our products, and is the first company in China attaining licenses for the manufacture of HA by fermentation process for Pharmaceutical API & Excipient grades HA. Bloomage Freda Biopharm is also GMP certified by the SFDA, and has DMF registrations with the FDA and KFDA for Injection API grade HA, as well as CEP certification from Europe. The company has also successfully passed on-site inspections by FDA and KFDA.

HA is widely used as natural moisturizing factor in cosmetic industry. The company is the first one to create a draft of the industrial standard of HA for cosmetic use in China, as well as receiving the ECOCERT certification. In 2011, the company became the first and the only manufacturer in the world to use the enzymatic degradation process for a large industrial scale production of the new Oligo HA (miniHA™). In 2013 a new, innovative moisturizing solution for color cosmetics, an Oil-dispersed Sodium Hyaluronate (Hyacolor™) was launched.

HA has been widely used in health foods in the USA, Japan and other countries. Oral HA has many effects such as keeping the skin beautiful and improving joints function. The company was the first one to receive a production license for HA as new dietary supplement in China in 2008. In 2011, the company achieved Kosher and Halal certification for Food Grade HA. In 2013, the food grade HA passed the safety assessment by US authorized testing organizations.

The company is currently the largest supplier of HA in China market, and its products are exported to worldwide. Bloomage Freda Biopharm is a strategic partner for some of the largest global brands in the cosmetic, food and pharmaceutical industries.


In February 2014, the company successfully developed a new efficient anti-aging ingredient, Gabacare™BL98T, produced by its advanced fermentation technology. In March 2014, a new natural relaxation ingredient, Food Grade Gabarela™, was launched successfully. This marks the successful leaping of our products from HA series to non-HA products and consolidates our image of Innovative company in the competitive market of natural and sustainable specialties ingredients.




Certification




Pharmaceutical Grade Sodium Hyaluronate



China GMP

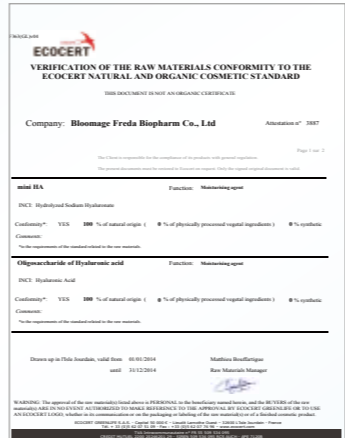


DMF




CEP


Cosmetic Grade Sodium Hyaluronate



Ecocert



Halal



Kosher

Food Grade Sodium Hyaluronate



HA Product List

Hyatru[™] Pharmaceutical Grade Sodium Hyaluronate

Product Name	Product Code	Intrinsic Viscosity m ² /kg	Applications
Injection Grade Sodium Hyaluronate	HA-EP2	Measured Value	For parenteral preparations, including intra-articular and intra-ocular preparations, such as OVD, intra-articular injections, intradermal injections for aesthetic correction, anti-adhesive products, etc.
	HA-EP1.8 (DMF & CEP & KDMF)	1.6~2.2	
	HA-EP3.0 (DMF & CEP & KDMF)	2.7~3.6	
Medical Grade Sodium Hyaluronate	HA-EP1	Measured Value	For parenteral preparations or oral preparations not including intra-articular and intra-ocular preparations. It can be used in eye drops, contact lens solutions, topical preparations for wound or burn healing, medical lubricants, etc.
	HA-EP1.0/2.0	1.0~2.0	
	HA-E2.0 (DMF)	1.2~2.8	
	HA-E3.0 (DMF)	2.7~3.6	
	HA-P-0.5 (DMF)	0.5~1.0	

Freda[®] Cosmetic Grade Sodium Hyaluronate

Product Name	Product Code	Molecular weight	Applications
High Molecular Weight Sodium Hyaluronate	HA-THM	1,800 kDa	Skin care products: cream, emulsion, essence, lotion, gel, facial mask, etc. Makeup products: lipstick, eye shadow, foundation, etc. Cleansing products: facial cleaner, body wash, etc. Hair care products: shampoo, hair conditioner, styling gel, hair restorer, etc.
Sodium Hyaluronate	HA-T	1,000 kDa ~ 1,800 kDa	
Low Molecular Weight Sodium Hyaluronate	HA-TLM	10 kDa ~ 1,000 kDa	
Low Molecular Weight Sodium Hyaluronate	HA-TLM 20-40	200 kDa ~ 400 kDa	
Oligo Hyaluronic Acid	HA-Oligo	< 10 kDa	
Sodium Hyaluronate 1% Solution	HA-TL	—	
Low Molecular Weight Sodium Hyaluronate 1% Solution	HA-TLLM	—	
HA-Oligo degraded by hyaluronidase	miniHA [™]	< 10 kDa	
Oil-dispersed Sodium Hyaluronate	Hyacolor [™]	—	

HAPLEX[®] Food Grade Sodium Hyaluronate

Product Name	Product Code	Molecular weight	Applications
Food Grade Sodium Hyaluronate	HA-F	200 kDa ~ 600 kDa	Used as ingredient in food or health food
		Customized molecular weight for your application	