Food Grade Products

Product Name		Molecular Weight	Applications
HAPLEX®	Sodium Hyaluronate	200 kDa ~ 600 kDa Customized molecular weight for your application	Used as ingredient in food or health food
HAPLEX®Plus	Sodium Hyaluronate	200 kDa ~ 600 kDa 1,000 kDa ~1,500 kDa	
Gabarelax™	Gamma Aminobutyric Acid		

Pharmaceutical Grade Products

	Product Name	Product Code	Intrinsic Viscosity m³/kg	Applications	
Hyatrue™ ⁻		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.	
	Injection Grade Sodium Hyaluronate	HA-EP1.8 (DMF & CEP & KDMF)	1.6~2.2		
		HA-EP3.0 (DMF & CEP & KDMF)	2.7~3.6		
		HA-EP1	Measured Value	For parenteral preparations or oral preparations not including intra-articula and intra-ocular preparations. It can be used in eye drops, contact lens solutions, topical preparations for wound or burn healing medical lubricants, etc.	
	Medical Grade	HA-E2.0 (DMF)	1.2~2.8		
	Sodium Hyaluronate	HA-E3.0 (DMF)	2.7~3.6		
		HA-P-0.5 (DMF)	0.5~1.0		

Global Distribution



Subsidiary Company in USA

Bloomage Freda Biopharm USA Inc. 181 New Road, Suite 308, Parsippany NJ 07054 TEL: +1-973-255-6687

FAX: +1-973-428-4925

Bloomage Freda Biopharm Japan

R. 521 Banchoheim, 1-2 Nibancho, Chiyoda-ku,

Tokyo 102-0084

TEL: +81-3-6256-9688 FAX: +81-3-6256-9687

Shanghai Office

TEL: +86-21-64480654 FAX: +86-21-64480654

Guangzhou Office

TEL: +86-20-36261514 FAX: +86-20-86253859



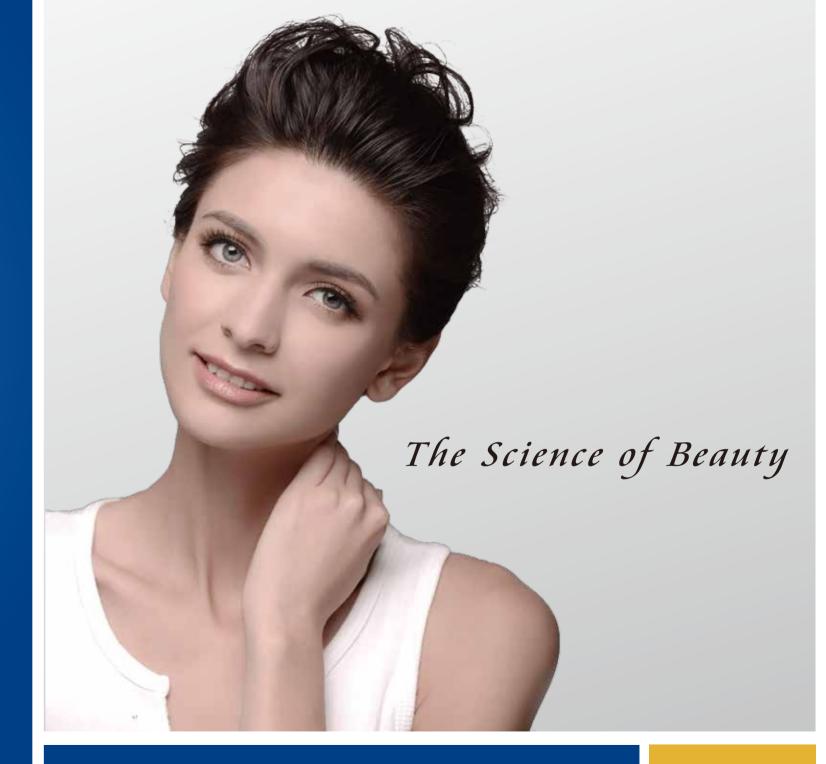
SODIUM HYALURONATE





BLOOMAGE FREDA BIOPHARM CO., LTD.

Add: No.678 Tianchen St., High - Tech Development Zone, Jinan, China 250101
Tel: +86 531 82685998 Fax: +86 531 82685988
www.bloomagefreda.com
E-mail:customer@bloomagefreda.com
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BLOOMAGE FREDA BIOPHARM CO., LTD.

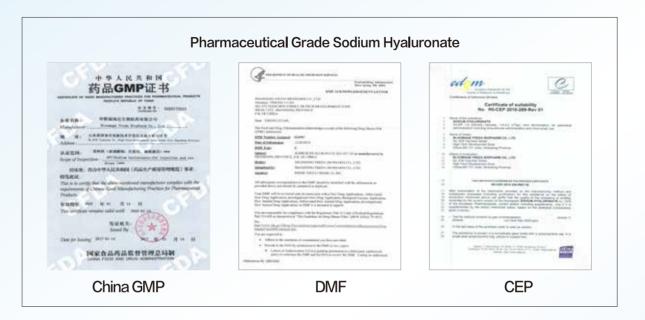
Bloomage Freda Biopharm Co.,Ltd. was established in 1998 by Bloomage International Investment Group Inc. and Shandong Freda Pharmaceutical Group Corporation. For the past 20 years, the company has focused its efforts on R&D, production and sales of Sodium Hyaluronate (HA). The applications and specifications of HA vary by product and are divided into Pharmaceutical, Cosmetic, and Food grades. In 2008, the parent company Bloomage Biotechnology achieves its listing on the main board of Hong Kong exchange market (stock code: 00963.HK).

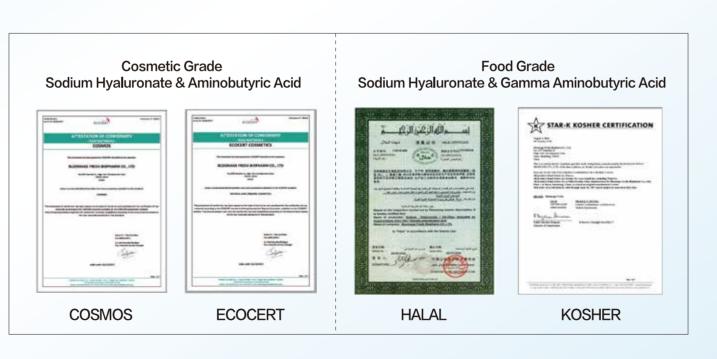


COMPANY HISTORY









Product List

Cosmetic Grade Products

1 HA

Product Name		Molecular Weight	Benefits	Applications	
Freda® P	HA-THM	High Molecular Weight Sodium Hyaluronate	≥1,800kDa	Moisturizing Lubricity and film-forming effects Increase emulsion stability Nutrition delivery Prevent and repair skin damage Anti-aging	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. Recommended usage: 0.1%-0.5%
	HA-T	Sodium Hyaluronate	1,000kDa ~ 1,800kDa		
	HA-TLM	Low Molecular Weight Sodium Hyaluronate	10kDa ~ 1,000kDa		
	HA-TLM 20-40	Low Molecular Weight Sodium Hyaluronate	200kDa ~ 400kDa		
	HA-TLM 3-5	Hydrolyzed Hyaluronic Acid	37 kDa~56 kDa		
	HA-Oligo	Oligo Hyaluronic Acid	<10kDa		
	HA-TL	Sodium Hyaluronate 1% Solution	_		
	HA-TLLM	Low Molecular Weight Sodium Hyaluronate 1% Solution	_		
miniHA™	HA-Oligo Degraded by Hyaluronidase		<10kDa	Transdermal absorption Deep moisturizing Repair damaged cells Scavenge free radicals Anti-aging	0.170-0.376

2 HA Derivatives

Product Name	Benefits	Applications	Recommended Usage
Hyacross™ Hyaluronic Acid Elastomer	Excellent protective film with long-lasting moisturizing effect Smooth and not sticky feeling Increase skin elasticity and reduces roughness	Skin care products	1%-5%
Hymagic™-AcHA Sodium Acetylated Hyaluronate	High affinity & adsorption Superb moisturization Repair skin barrier Improve skin elasticity	Skin care products	0.01%-0.1%
Hyacolor™ Oil-dispersed Sodium Hyaluronate	High content of HA Unique HA microsphere technology Perfect transdermal absorption Excellent lip-plumping, repairing, moisturizing	Specially for lip care products & make-up products	0.1%-2%
cationHA [™] Substantive Sodium Hyaluronate	High substantivity Reduce the irritation caused by SAA Improve the barrier function of the skin & scalp Good compatibility	Specially for rinse-off products	0.5%-1%

3 Other Fermentation Products

Product Name	Benefits	Applications	Recommended Usage
Gabacare™ BL98T Aminobutyric Acid	Reduce wrinkles and smooth skin Repair the damaged skin Promote the synthesis of HA and collagen	Skin care & Hair care products Make-up products	0.05%-0.3%
Hyafactor™-NAG Acetyl Glucosamine	Promote HA synthesis and scavenge free radicals Natural exfoliating regulator Whiten and moisturize effects	Skin care products	0.5%-2%
Hyafactor™-PGA Sodium Polyglutamate	Promote the accumulation of NMFs Reduce the degradation of HA Enhance moisturizing capacity and elasticity of skin Inhibition of melanin production	Skin care products	0.05%-1%