

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	
Gabarelux™	Gamma Aminobutyric Acid	--	

Pharmaceutical Grade Products

Product Name		Product Code	Intrinsic Viscosity m³/kg	Applications
Hyatru®™	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-E2.0 (DMF)	1.2~2.8	
		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



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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SODIUM HYALURONATE



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).



1990s

1998

2001

2002

2004

2005

2008

2009

2010

2011

Chief Scientist Dr. Guo Xueping initiated the research on producing HA by bio-fermentation technology

The company Shandong Freda Biochem Co., Ltd. was established and launched the production of Cosmetic Grade HA by fermentation

Bloomage International Investment Group invested in the company
The company passed ISO 9001 Quality Management System Certification

Dr. Guo received Wu Jieping Medical Research Award & Paul Janssen Pharmaceutical Research Award for his great contributions to the HA industry
Production line of HA for Pharmaceutical Excipient use passed the inspection by China FDA

Achieved the National approval license for Eye Drop Grade HA used as a Pharmaceutical Excipient

The company moved into the new location in the development zone of Jinan City

HAPLEX was approved as a New Dietary Ingredient in China
Became the first holder of the production license for HA as a New Dietary Supplement in China

Injection Grade HA new workshop was established and trial production was successful

Company name changed into Shandong Freda Biopharm Co., Ltd.

Achieved the National approval license for Eye Drop Grade HA used as an API
Obtained the China GMP certificate
Obtained the CEP and DMF certification for Injection Grade HA
miniHA™ - the world first Oligo HA by enzymatic degradation was successfully launched

2012

2013

2014

2015

2016

2017

Successfully passed the on-site inspection by US FDA
Company name changed into Bloomage Freda Biopharm Co., Ltd.
Subsidiary company Bloomage Freda Biopharm USA Inc. was established in New Jersey

Achieved the National approval license for Injection Grade HA used as an API
Obtained the KDMF registration certificate for Injection Grade HA Hyacolor™(Oil-dispersed HA) was successfully launched
Obtained the 2013 China Personal Care & Cosmetics Innovation Award for miniHA™


New anti-wrinkle ingredient Gabacare™ BL98T(Aminobutyric Acid) was successfully launched
Obtained the 2014 China Personal Care & Cosmetics Innovation Award for Hyacolor™
New factory was put into operation
Obtained the Japan MF registration certificate for Medical Grade HA

New food ingredient Gabarela™ was successfully launched
New cosmetic ingredients Hyacross™(Hyaluronic Acid Elastomer) & cationHA™(Substantive Sodium Hyaluronate) were successfully launched
Obtained the 2015 China Personal Care & Cosmetics Innovation Award for Gabacare™BL98T and cationHA™


New cosmetic ingredients Hyafactor™-NAG(Acetyl Glucosamine) & Hyafactor™-PGA(Sodium Polyglutamate) were successfully launched
Obtained the Russian registration certificate for Pharmaceutical Grade HA
Obtained the CEP registration certificate for Medical Grade HA HAPLEX® Plus with clinical efficacy data was successfully launched
Bloomage Freda Biopharm Japan was established in Tokyo

Obtained the COSMOS certification for Cosmetic Grade HA and Gabacare™ BL98T
Hymagic™(Sodium Acetylated Hyaluronate) was successfully launched


Certification




China GMP




DMF




CEP




COSMOS



ECOCERT



HALAL



KOSHER

Cosmetic Grade Products

Product Name		Molecular Weight	Benefits	Applications
Freda®	HA-THM	High Molecular Weight Sodium Hyaluronate	≥1,800kDa	<p>Skin care products: cream, emulsion, essence, lotion, gel, facial mask, etc.</p> <p>Makeup products: lipstick, eye shadow, foundation, etc.</p> <p>Cleansing products: facial cleaner, body wash, etc.</p> <p>Hair care products: shampoo, hair conditioner, styling gel, hair restorer, etc.</p> <p>Recommended usage: 0.1%-0.5%</p>
	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	<p>Transdermal absorption Deep moisturizing Repair damaged cells Scavenge free radicals Anti-aging</p>

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%