Raw Materials for Pharmaceutical Industry

Pi	roduct Name	Product Code	Registration	Application	
Hyatrue®	Injection Grade Sodium Hyaluronate	HA-EP1.2	CEP		
		HA-EP1.8	US DMF & CEP & KDMF	For parenteral preparations, including intra-articular	
		HA-EP2.4	CEP	and intra-ocular preparations, such as OVD, intra-articular injections, intradermal injections for aesthetic correction, anti-adhesive products, etc.	
		HA-EP3.0	US DMF & CEP & KDMF		
		HA-EP-N2.5	CEP		
		HA-EP2	/		
	Medical Grade Sodium Hyaluronate	HA-E2.0	US DMF & CEP	For parenteral preparations or oral preparations	
		HA-E3.0	US DMF & CEP	not including intra-articular and intra-ocular injections. It can be used in eye drops, contact lens solutions, topical preparations for wound or burn healing, medical lubricants, etc.	
		Purified Sodium Hyaluronate	Japan MF		
		HA-EP1	/		
		HA-P-0.5	US DMF	For oral preparations	

Raw Materials for Food Industry

Product Name	Origin	Benefit	Application	
HAPLEX® Sodium Hyaluronate	- Microbial fermentation	Beauty from within Joint care		
HAPLEX®Plus Sodium Hyaluronate	Microbiaticimentation	Eye health Digestive health	For dietary supplements, health foods, common foods, beverage, etc.	
Gabarelax™Gamma Aminobutyric Acid (GABA) 98%	- Microbial fermentation	Relaxation Sleep aid		
Gabarelax™Gamma Aminobutyric Acid (GABA) 20%		Mental focus		







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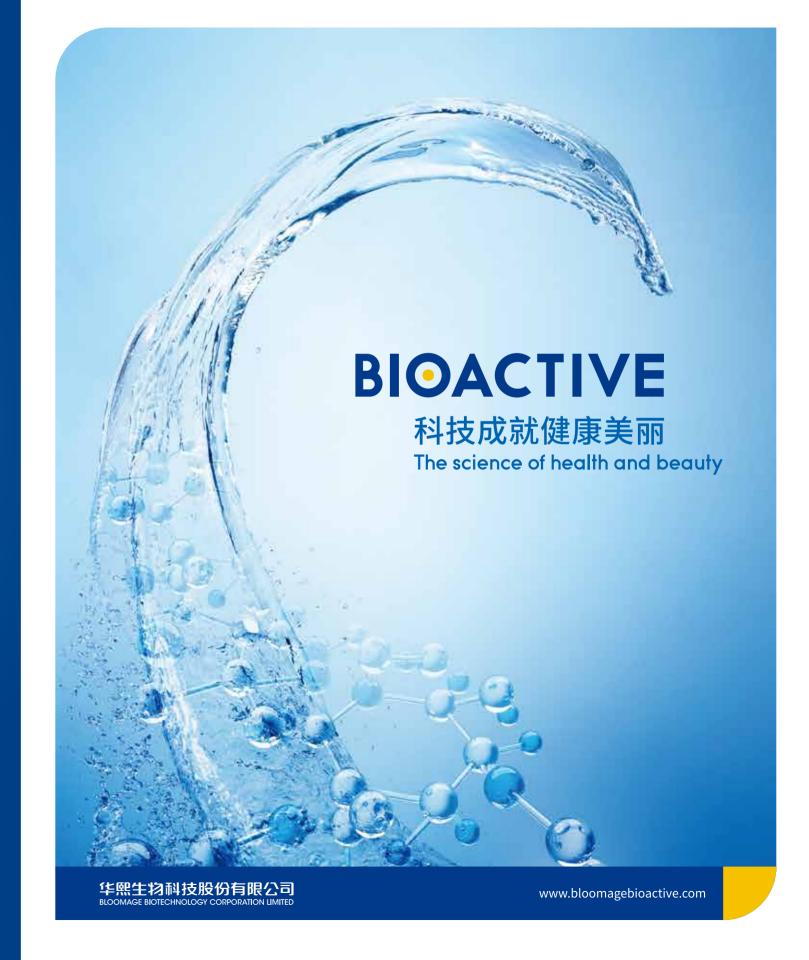
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About us Bloomage Biotechnology Corporation Limited (formerly Bloomage Freda Biopharm), established by Bloomage International Investment Group, is a 2017 national High-Tech enterprise. Since 1990s, for the first time in China, developed fermentation procedure to manufacture Sodium Hyaluronate, Bloomage Biotech has devoted its efforts on research, development, and production in biotechnology field, not only on the innovation in Sodium 2019 hyaluronate, but also on relevant bioactive ingredients. **Environmental Management System** As the raw material business unit, Bloomage Biotech Bioactive will keep providing innovative solutions and technical support to our valued partners. and Occupational Health and Safety Management System certified 2014 Name changed to Bloomage HACCP and ISO 22000 certified Biotechnology Corporation Limited Indian registration for pharmaceutical Hyafactor™-SG Sclerotium Gum Fermentation Platform was established 2012 grade HA obtained Hydrogel launched Japan MF and Canada DMF registration Hymagic™-AcHA Sodium Acetylated Gabacare™ BL98T Aminobutyric Acid was launched 1998 Passed US FDA on-site audit Hyaluronate obtained launched Subsidiary company Bloomage Freda Shandong Freda Biochem Co., Ltd. Biopharm USA Inc. established established 2008 1990s HAPLEX® approved as a New 2001 Chief Scientist Dr. Guo Dietary Ingredient in China 2018 Xueping initiated the 2016 Bloomage International Investment research on producing EFfCI GMP certified Group invested in the company HA by bio-fermentation 2013 Russian registration for Feed Additive Production License cotained for feed ISO 9001 certified technology pharmaceutical grade HA grade HA 2015 More DMFs filed at China FDA KDMF regrstened for 2011 Hymagic[™]-4D 4D Hyaluronic Acid & microHA[™] pharmaceutical grade HA Hyacross™ Hyaluronic Acid Super Active Hyaluronic Acid launched HA Technology Platform Elastomer launched Biomoist™ Hyaluronic Acid for Oral Care launched established China GMP approved Gabarelax™Gamma Aminobutyric 2004 CEP certifications and US DMFs obtained Acid obtained Food Production miniHA™- the world first HA-Oligo by License and launched enzymatic degradation successfully Pharmaceutical Excipient License obtained





High-tech Enterprise Certificate

EHS

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CEP



ISO 9001

US DMF



COSMOS



HALAL



Global Distribution

Product Category

Raw Materials for Cosmetics Industry

Category	Product Name	Function	Application	Recommende Dosage
	Hybloom™ Sodium Hyaluronate (HA-T)		For skin care products, hair care products, makeup products, cleaning products	0.1%-0.5%
	Hybloom™ High Molecular Weight Sodium Hyaluronate (HA-THM)	Natural and interior of the co		
Hyaluronic Acid	Hybloom™ Low Molecular Weight Sodium Hyaluronate (HA-TLM)	Natural moisturizing factor Lubricity and film-forming effects Increase emulsion stability		
ACIO	Hybloom™Low Molecular Weight Sodium Hyaluronate (HA-TLM 20-40)	Nutrition delivery Prevent and repair skin damage Anti-aging		
	Hybloom™ Hydrolyzed Hyaluronic Acid (HA-TLM3-5)			
	Hybloom™ Oligo Hyaluronic Acid (HA-Oligo)			
	microHA™ Super Active Hyaluronic Acid	Transdermal absorption, smooth skin, repair barrier function of skin	For skin care products	0.05%-0.5%
	miniHA™HA-Oligo Degraded by Hyaluronidase	Transdermal absorption, deep moisturizing, repair damaged cells, anti-oxidation, anti-aging	For skin care products	0.1%-0.5%
	Hymagic™-AcHA Sodium Acetylated Hyaluronate	High-affinity & absorption, superb moisturizing, repair skin barrier, improve skin elasticity	For skin care products	0.01%-0.1%
	Hymagic™-4D 4D Hyaluronic Acid	Accurately target different skin layers, synergistic moisturizing	For skin care products, hair care products	1%-10%
Novel Hyaluronic Acid	Hyacross™ Hyaluronic Acid Elastomer	Protect skin against UV & pollution, long-lasting moisturizing, increase skin elasticity and reduce skin roughness	For skin care products	1%-5%
	Hyacolor™Oil-dispersed Sodium Hyaluronate	Natural care, good hydrating capacity, improve skin smoothness, lip plumping and repairing	For makeup 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	For rinse-off products	0.5%-1%
	Biomoist™ Hyaluronic Acid (For Oral Care)	Improve dry mouth, reduce inflammation factors, repair damaged gingival tissue	For oral cleaning and care products	0.05%-0.5%
	Hyadom™ Hyaluronic Acid Lubricant	Easy to clean, lubricating, moisturizing, nourishing	For latex condom	/
	Bioecto™ Ectoine	Protection & anti-stress, repairing, anti-aging	For skin care products, hair care products, makeup products	0.1%-2%
	Gabacare™ BL98T Aminobutyric Acid	Reduce wrinkle and smooth skin, repair the damaged skin, promote the synthesis of HA and collagen	For skin care products, hair care products, makeup products	0.05%-0.3%
	Hyafactor™-SG Sclerotium Gum Hydrogel	Moisturizing, improve skin smoothness, improve skin feeling	For skin care products, hair care products, makeup products	0.5%~8%
Fermentation Platform Products	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	For skin care products	0.05%-1%
	Hyafactor™-NAG Acetyl Glucosamine	Promote HA synthesis and scavenge free radicals, natural exfoliating regulator, whitening and moisturizing effects	For skin care products	0.5%-2%
	Bioyouth™-Brice Brown Rice Ferment Filtrate	Repair skin barrier, anti-oxidant and delay skin aging, significant whitening effect	For skin care products, rinse-off products	0.5%-4%
	Bioyouth™-Natto Natto Extract	Moisturizingand smoothing, improve skin texture, increase skin elasticity	For skin care products	0.5%-2%