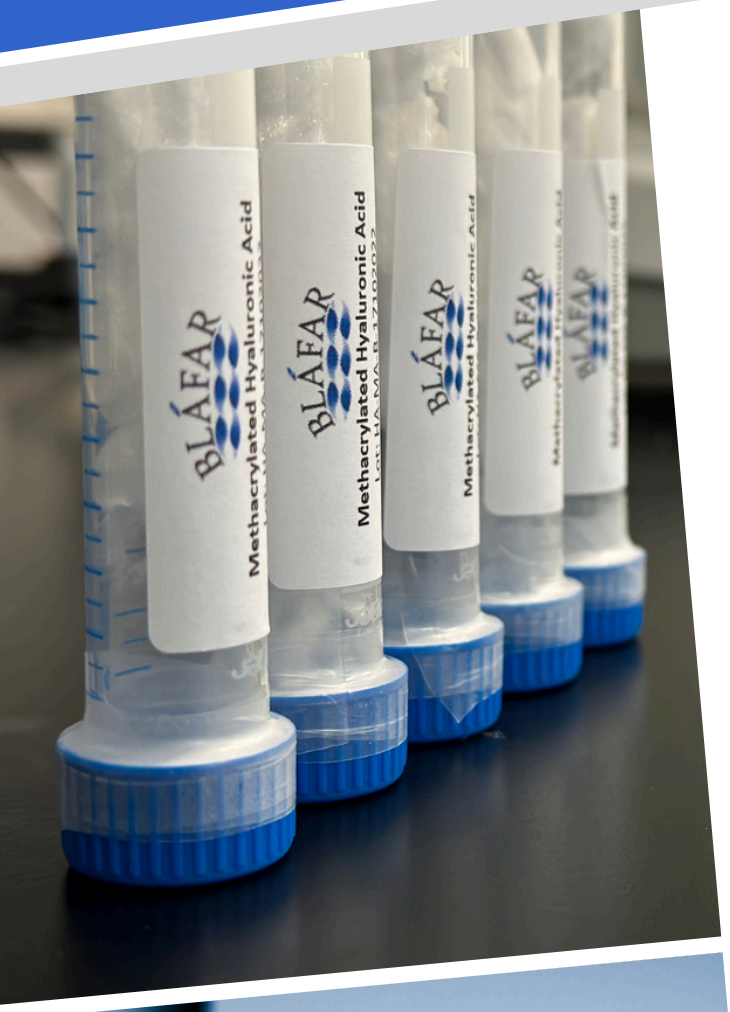

BLÁFAR

We Design Biopolymers

Product Leaflet

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Modified Hyaluronic Acid:

Bláfar modified hyaluronic acid is derived from a natural glycosaminoglycan that is a component of the extracellular matrix (ECM), making it ideal for cell culture, cosmetic and medical device manufacturing, bio-printing, and drug delivery.

Thiolated Hyaluronic Acid (HA-SH)

Technical Information

Specifications available	450 / 220 / 110 kDa HA raw material & 75 / 50 / 25 % substitution degree (SD)
Solubilty	Water, PBS
Cytotoxicity	Biocompatible
Applications	Hydrogel preparation, 3D cell culture scaffold, 3D bioprinting, ECM substitute.
Grade	R&D or GMP like*

Methacrylated Hyaluronic Acid (HA-MA)

Technical Information

Specifications available	450 / 220 / 110 kDa HA raw material & 50 / 25 / 10 % substitution degree (SD)
Solubilty	Water, PBS
Cytotoxicity	Biocompatible
Applications	3D cell culture scaffold, 3D bioprinting, wound healing material
Grade	R&D or GMP like*

Injectable hydrogel kit

This kit enables rapid formation of an injectable in situ crosslinking HA hydrogel. Mixing HA-A and HA-SH produces a stable 3D network via a biosafe thiol-ene reaction, offering easy handling, fast gelation, and excellent biocompatibility for tissue engineering, cell culture, drug delivery, and regenerative medicine.

Technical Information

Form	Lyophilised porous sponge (solid)
Solubility	Water, PBS
Cytotoxicity	Biocompatible material
Handling & Safety	Please refer to the provided Material Safety Data Sheet (MSDS) for information on potential hazards and safe handling procedures.
Application	Injectable hydrogel formation, bioinks for 3D bioprinting, drug delivery systems
Grade	R&D or GMP-like*

Modified Gelatin:

Bláfar modified gelatin is derived from a natural protein making it particularly suited to cell culture, tissue engineering, cosmetic and medical device applications.

Thiolated Gelatin (Gel-SH)

Technical Information

Specifications available	Type A and Type B Gelatin raw material
Solubilty	Water, PBS
Cytotoxicity	Biocompatible
Applications	3D cell culture scaffold, 3D bioprinting, wound healing material
Grade	R&D

Methacrylated Gelatin (Gel-MA)

Technical Information

Specifications available	Type A and Type B Gelatin raw material
Solubilty	Water, PBS
Cytotoxicity	Biocompatible
Applications	3D cell culture scaffold, 3D bioprinting, wound healing material
Grade	R&D

Hyperbranched PEG based Multi-Acrylate Polymer (HB-PEG)

Bláfar Hyperbranched PEG-based Multi-Acrylate Polymers (HB-PEG) are available with differing molecular weights, branching degrees and vinyl group contents. HB-PEG possesses great biocompatibility and fast gelation time with thiolated polymers (HA-SH/Gel-SH). HB-PEG can also be crosslinked by UV irradiation in the presence of the photoinitiator, making it particular suitable for 3D bioprinting.

Technical Information

Specifications available	HB-PEG – 10 kDa & 20 kDa Mw
Purity	>98%
Solubilty	Water, PBS, common organic solvents
Cytotoxicity	Biocompatible
Applications	3D cell culture scaffold, 3D bioprinting, wound healing materials
Grade	R&D

* Our GMP-like products are manufactured in our ISO Class 7 clean room, located within our ISO 13485 certified facilities

Product Range

Catalogue No.	Description	Catalogue No.	Description
Modified Hyaluronic Acid			
Thiolated Hyaluronic Acid		**Methacrylated Hyaluronic Acid**	
HASH0101	450 kDa raw material HA, 75% SD (±10%)	**HAMA0101**	450 kDa raw material HA, 50% SD (±10%)
HASH0102	450 kDa raw material HA, 50% SD (±10%)	**HAMA0102**	450 kDa raw material HA, 25% SD (±10%)
HASH0103	450 kDa raw material HA, 25% SD (±10%)	**HAMA0103**	450 kDa raw material HA, 10% SD (±10%)
HASH0201	220 kDa raw material HA, 75% SD (±10%)	**HAMA0201**	220 kDa raw material HA, 50% SD (±10%)
HASH0202	220 kDa raw material HA, 50% SD (±10%)	**HAMA0202**	220 kDa raw material HA, 25% SD (±10%)
HASH0203	220 kDa raw material HA, 25% SD (±10%)	**HAMA0203**	220 kDa raw material HA, 10% SD (±10%)
HASH0301	110 kDa raw material HA, 75% SD (±10%)	**HAMA0301**	110 kDa raw material HA, 50% SD (±10%)
HASH0302	110 kDa raw material HA, 50% SD (±10%)	**HAMA0302**	110 kDa raw material HA, 25% SD (±10%)
HASH0303	110 kDa raw material HA, 25% SD (±10%)	**HAMA0303**	110 kDa raw material HA, 10% SD (±10%)
Modified Gelatin			
Thiolated Gelatin		**Methacrylated Gelatin**	
GelSH01	Type A Gelatin Raw Material	**GelMA01**	Type A Gelatin Raw Material
GelSH02	Type B Gelatin Raw Material	**GelMA02**	Type B Gelatin Raw Material
Injectable hydrogel kit			
HAK01	HA-A (15 mg) + HA-SH (5 mg) - 1ml - 2%	**HAK03**	HA-A (45 mg) + HA-SH (15 mg) - 3ml - 2%
HAK02	HA-A (30 mg) + HA-SH (10 mg) - 2ml - 2%	**HAK04**	HA-A (60 mg) + HA-SH (20 mg) - 4ml - 2%
Hyperbranched PEG based Multi-Acrylate (HB-PEG)			
HBPEG10K	MW 10 kDa	HBPEG20K	MW 20 kDa

Please enquire for more information on Bláfar Ltd biomaterials and customised services.

Find out more

Enquire here