

Gelatin-based high-strength hydrogel solution

Cat. No.: G1518389 | Pack size: 5 mL, 10 mL | Storage: 2-8°C, protected from light

Overview

Product Introduction

Gelatin-based high-strength hydrogel solution is composed of o-nitrobenzyl alcohol-modified gelatin (GelNB), methacrylated hyaluronic acid sodium salt (HAMA), photoinitiator (NAP) and phosphate aqueous solution. It is a sterile, ready-to-use hydrogel solution. This product inherits the excellent biocompatibility, cell adhesiveness and biodegradability of gelatin molecules. It can be used for cell surface culture, tissue engineering implants and other applications. Compared with traditional gelatin-based (GelMA) hydrogels, this material exhibits better elasticity and toughness, providing broad application prospects for tissue repair and regenerative medicine.

Specifications

Property	Information
Specifications & Purity	BioReagent, sterile-filtered
Stability And Storage	Store at 2-8°C long term (12 months). Store in the dark.
Storage	Store at 2-8°C, Protected from light
Shipped In	Wet ice This product requires cold chain shipping. Ground and other economy services are not available.
Grade	BioReagent, Sterile-filtered

Product Specifications

Product Code	Appearance	Specification	Note
G1518389	Pale yellow transparent solution	5 mL/vial, 10 mL/vial	Store in the dark

Performance Parameters

Item	Performance Parameter	Item	Performance Parameter
Tensile Modulus	380~410 kPa	Elongation at Break	168~180%
Tensile Strength	1.7~2.0 MPa	Compressive Modulus	550~690 kPa
Compressive Strength	7.4~8.3 MPa	Water Content	>80%
Swelling Degree	150~170%	Cytocompatibility	No potential cytotoxicity

Instructions for Use

1. Heat the pre-filled syringe barrel at 37 °C-60 °C until the ink inside becomes a flowable liquid before use.
2. Before use, tighten the plunger to the rubber stopper inside the syringe, then unscrew the hard spiral rubber stopper to push out the solution for use.
3. The product undergoes cross-linking reaction to form a gel when irradiated with light at a wavelength of 365-405 nm.

Precautions

1. The product is sterilized. Please maintain aseptic operation during use to avoid microbial contamination.
2. Before use, the outer surface of the product syringe can be wiped and disinfected with alcohol.
3. The product must be stored strictly protected from light.

Chemical and Physical Properties

Sensitivity	Light-sensitive
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Contact & Global Offices

Whether you have a technical question, need help with a quotation, or want to inquire about an order, our regional teams are ready to assist. Please contact the office for your region; for general inquiries, the North American office is the corporate primary.

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Limitations & Disclaimer

- For Research Use Only (RUO). Not for use in human or animal diagnostics, therapeutics, or in vivo applications. Not for food, cosmetic, or household use.
- This product is not a CE-marked in vitro diagnostic device under IVDR (EU) 2017/746 and is not an FDA-cleared device under 21 CFR. Use is restricted to verified businesses, institutions, and qualified professionals for research and development purposes.
- Where any kit component is classified as hazardous under CLP (EC) 1272/2008 or OSHA HCS (29 CFR 1910.1200), the product Safety Data Sheet (SDS) takes precedence over this document for handling, storage, and disposal information.
- Performance depends on sample type, sample condition, handling, and operator technique. Users are responsible for validating the kit for their specific application.
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