

PVA-based high-strength hydrogel solution

Cat. No.: P1518390 | Pack size: 5 mL; 10 mL | Storage: 2-8°C, protected from light

Product Introduction

PVA-based high-strength hydrogel solution is composed of o-nitrobenzyl alcohol-modified polyvinyl alcohol (PVANB), methacrylated hyaluronic acid sodium salt (HAMA), photoinitiator (NAP) and phosphate aqueous solution. It is a sterile, ready-to-use product. The PVA molecular chain contains a large number of -OH groups, and there are abundant weak non-covalent interactions such as hydrogen bonds and van der Waals forces inside the system. The resulting hydrogel material exhibits excellent tensile and compressive properties, making it an ideal flexible material.

Performance Parameters

Test Item	Performance Parameter	Test Item	Performance Parameter
Tensile Modulus	120~160 kPa	Elongation at Break	90~110%
Tensile Strength	0.8~1.0 MPa	Compressive Strength	1.4~1.8 MPa
Water Content	~88%	Swelling Degree	130~140%
Cytocompatibility	No potential cytotoxicity		

Usage Instructions

1. 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.
2. The product undergoes cross-linking reaction to form a gel when irradiated with light at a wavelength of 365-405 nm.
3. This product is sterilized. Please maintain aseptic operation during use to avoid microbial contamination.
4. Before use, the outer surface of the product syringe can be wiped and disinfected with alcohol.
5. This product must be stored strictly protected from light.

Specifications

Item	Information
Specifications & Purity	BioReagent, sterile-filtered
Sensitivity	Light-sensitive
Appearance	Pale yellow transparent solution
Stability And Storage	Store at 2-8°C long term (24 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.

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.
- Aladdin product labels, SDS, COA, and approved specifications take precedence over this document. If product formulation, label, SDS, storage conditions, pack size, or quality specifications change, this document would be reviewed and reissued.