

Gelatin aqueous solution (2%, PCR grade)

Cat. No.: G1518366 | Pack size: 50 mL, 100 mL | Storage: -20°C; avoid repeated freezing and thawing

Overview

Gelatin is a powdered substance derived primarily from animal skin and bones through processes such as washing, soaking, hydrolysis, filtration, gelation, and crushing. It has no fixed structure or relative molecular weight and is a colorless, odorless, non-volatile, transparent, and hard amorphous material. Gelatin is soluble in hot water but insoluble in cold water; however, it can slowly absorb water, swell, and soften, absorbing 5-10 times its own weight in water. Its main components are amino acids and a mixture of polypeptides with similar compositions but a wide molecular weight distribution. It is widely used in the food, pharmaceutical, and chemical industries.

Gelatin Aqueous Solution (2%, PCR Grade) is composed of high-purity gelatin and deionized water. It is sterilely processed and typically appears as a pale yellow viscous liquid or gel at room temperature. It must be heated to dissolve before use.

This product is often used as an adhesive or additive and can improve amplification efficiency in PCR reactions. Its specific functions are as follows:

- Suitable for PCR amplification of GC-rich templates.
- Enhances the stability of Taq DNA polymerase.

Note: Although gelatin can improve PCR amplification efficiency, it is a relatively weak enhancer and is less effective than betaine.

Procedure (For Reference Only)

1. This product appears as a gel at room temperature and needs to be heated to dissolve before use. Place it in a 60-70°C water bath and incubate until completely melted. Mix gently before use.
2. Add this product to the PCR reaction system according to the specific requirements of the experiment to achieve the desired working concentration.

Precautions

1. To avoid contamination and reduced amplification efficiency, ensure aseptic handling and avoid repeated freeze-thaw cycles.
2. If the usage amount per experiment is small, it can be appropriately aliquoted before storage.
3. This product is for research use only and is not intended for direct human application or clinical diagnosis.
4. For your safety and health, please wear a lab coat and disposable gloves during operation.

Specifications

Attribute	Value
Synonyms	Gelatin Solution (2%, PCR Grade)
Specifications & Purity	PCR Reagent, sterile, BioReagent
Stability And Storage	Store at -20°C long term (12 months). Avoid freeze/thaw cycle. Upon receipt, it is recommended to aliquot.
Storage Conditions	Store at -20°C, Avoid repeated freezing and thawing
Shipped In	Ice chest + Ice pads. 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 product 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.