

Betaine Solution (5 mol/L, PCR Grade)

Cat. No.: B1518367 | Pack size: 10 mL | Storage: Store at 2-8°C

Overview

Betaine is an alkaline substance with a CAS number of 107-43-7 and a molecular weight of 117.15. In PCR reactions, betaine effectively prevents the loss of Taq DNA polymerase activity during high-temperature denaturation.

Betaine Solution (5 mol/L, PCR Grade) is specifically optimized for PCR reactions. Its main functions include:

- Suitable for PCR amplification of GC-rich templates.
- Reduces the dependence of denaturation temperature on base composition.
- Enhances the stability of Taq DNA polymerase.

Procedure

Add Betaine Solution (5 mol/L, PCR Grade) to the PCR reaction system. Its working concentration is typically 1-2 mol/L.

Precautions

- If precipitation occurs due to low ambient temperature, the solution can be heated in a water bath to dissolve.
- This product is for research use only and is not intended for direct human application or clinical diagnosis.
- For your safety and health, please wear a lab coat and disposable gloves during operation.

Specifications

Attribute	Value
Synonyms	Betaine Solution (5 M, PCR Grade)
Specifications & Purity	BioReagent, PCR Reagent, 5 mol/L
Stability And Storage	Store at 2-8°C long term (12 months).

Attribute	Value
Storage Conditions	Store at 2-8°C
Shipped In	Wet ice. This product requires cold chain shipping. Ground and other economy services are not available.
Grade	BioReagent, PCR Reagent

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.
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