

## Ampicillin Sodium Solution (50 mg/ml, Sterile)

Cat. No.: A1509554 | Pack size: 10 mL | Storage: Protected from light, Store at -20°C

### Product Description

Ampicillin (Amp), also known as Ampicillin, is a  $\beta$ -lactam antibiotic that inhibits cell wall synthesis by interfering with the cross-linking of peptidoglycan. It belongs to the aminopenicillin class of antibiotics and is clinically used for the treatment of various bacterial infections.

Ampicillin Sodium is the sodium salt form of ampicillin, with a CAS number of 69-52-3.

Ampicillin Sodium Solution (50 mg/mL) is prepared by dissolving ampicillin sodium in deionized water and filtering the solution through a 0.22  $\mu$ m filter. This solution is commonly used in molecular experiments for preparing LB media or LB plates containing ampicillin.

### Usage Instructions

1. Thaw the solution completely and mix thoroughly before use.
2. The general working concentration of this solution is 100  $\mu$ g/mL. Add 100  $\mu$ L of the solution to 100 mL of medium (a 1:1000 ratio) and mix well. For plate preparation, ensure the medium has cooled to a non-scalding temperature before adding the solution.

### Precautions

1. Perform aseptic operation to avoid contamination.
2. If only a small volume is needed for each use, aliquot the solution before use is recommended.
3. For your safety and health, wear a lab coat and disposable gloves during operation.
4. This product is for research use only and is prohibited for any other purposes.

### Specifications

| Attribute               | Value                                                    |
|-------------------------|----------------------------------------------------------|
| Synonyms                | Ampicillin Sodium Solution                               |
| Specifications & Purity | sterile-filtered, BioReagent, for cell culture, 50 mg/ml |
| Stability And Storage   | Store at -20°C long term (12 months). Store in the dark. |

| Attribute          | Value                                                                                                                |
|--------------------|----------------------------------------------------------------------------------------------------------------------|
| Storage Conditions | Protected from light, Store at -20°C                                                                                 |
| 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 kit for their specific application.
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