

Kanamycin Sulfate Solution (100 mg/ml, Sterile)

Cat. No.: K1509565 | Pack size: 10 mL | Storage: Protected from light, Store at -20°C

Overview

Kanamycin is an aminoglycoside antibiotic isolated from *Streptomyces kanamyceticus*. In molecular biology, it is commonly used as a protein synthesis inhibitor for screening clones carrying the kanamycin resistance gene. Clinically, kanamycin is used to treat infections caused by a variety of bacteria, such as *Escherichia coli*, *Staphylococcus aureus* and *Mycobacterium tuberculosis*. Kanamycin Sulfate is the sulfate form of kanamycin, with a CAS number of 25389-94-0.

Kanamycin Sulfate Solution (100 mg/ml) is prepared by dissolving kanamycin sulfate in deionized water and filtered through a 0.22 µm membrane. This solution is widely used in cell culture experiments, including inhibiting bacterial contamination and selectively screening bacterial clones successfully transformed with the kanamycin resistance gene (kan gene).

Usage Instructions

1. Thaw the solution completely and mix thoroughly before use.
2. The recommended working concentration of this solution is 100 µg/mL. Add 100 µL of the solution to 100 mL of medium (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. Avoid repeated freeze-thaw cycles to prevent inactivation or reduced efficacy.
3. For your safety and health, wear a lab coat and disposable gloves during operation.
4. This product is for research use only and prohibited for any other purposes.

Specifications

Attribute	Value
Synonyms	Kanamycin Sulfate Solution
Specifications & Purity	sterile-filtered, BioReagent, for cell culture, 100 mg/ml

Attribute	Value
Stability And Storage	Store at -20°C long term (12 months). Store in the dark.
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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