

Product Data Sheet

Product Name: Penicillin-Streptomycin (100×)

Cat. No.: GF04868

Chemical Properties

Cas. No.

Formula

M.Wt

Solubility

Storage Stored at -20°C, and is stable for 1 year.

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Protocol

Usage Instructions

Penicillin-Streptomycin Solution (100×) can be used following one of these two methods:

1. Direct addition to sterile cell culture medium:

Add the Penicillin-Streptomycin Solution (100×) to the cell culture medium at a ratio of 5 mL per 500 mL of medium. Mix well before use.

2. Addition during the preparation of the cell culture medium, followed by filtration for sterilization:

Caution: Product has not been fully validated for medical applications. For research use only.

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Add the Penicillin-Streptomycin Solution (100×) to the medium at a ratio of 10 mL per 1 L of medium prepared. After preparation, filter to sterilize before use.

Precautions

1. Minimize the number of freeze-thaw cycles to prevent a decrease in potency.
2. Ensure sterile handling to avoid contamination.
3. This product is for scientific research by professionals only and should not be used for clinical diagnosis or treatment, nor in food or drugs.
4. For your safety and health, please wear a lab coat and disposable gloves during handling.

Background

Penicillin-Streptomycin (100×), sterile is used to prevent bacterial contamination of cell culture due to their effective combined action against gram-positive and gram-negative bacteria. Penicillin interferes with the final stage of synthesis of the bacterial cell wall. Streptomycin inhibits elongation at transpeptidation step during protein synthesis, and binds to 30S subunit, causing misreading. Penicillin-Streptomycin (100×) is a liquid formulation which contains 10,000 units/mL of penicillin and 10 mg/mL of streptomycin in 0.9% NaCl. Common working concentration for penicillin is 100 units/mL, for streptomycin is 100 µg/mL.

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