

Penicillin-Streptomycin-Amphotericin B Solution (100×)

Introduction

Penicillin-Streptomycin-Amphotericin B Solution (100×) is a sterile, ready-to-use triple antibiotic cocktail designed for prevention of bacterial contamination in cell culture. The solution is filter-sterilized and can be directly added to cell culture medium. In addition to standard antibacterial agents, this formulation contains the antifungal agent Amphotericin B. It provides broad-spectrum protection against bacterial, fungal, and yeast contamination.

This formulation is based on our Penicillin-Streptomycin Solution (100×) (Cat# K2803), with the addition of amphotericin B. Penicillin is a β -lactam antibiotic that inhibits bacterial cell wall synthesis. Streptomycin is an aminoglycoside antibiotic that act by inhibiting bacterial protein synthesis. Amphotericin B is a polyene antifungal agent that effectively suppresses fungal and yeast contamination.

This product is formulated in 0.9% NaCl and contains 10,000 units/mL penicillin, 10 mg/mL streptomycin and 25 μ g/mL amphotericin B. It is generally used in a 100X dilution. 100 mL of this solution is sufficient to prepare 10 L of complete growth medium.

Storage

Store at -20°C for one year.

Protocol

1. Add directly to sterile cell culture medium:

Add 5 mL of Penicillin-Streptomycin-Amphotericin B Solution (100×) into 500 mL of sterile cell culture medium. Mix well before use.

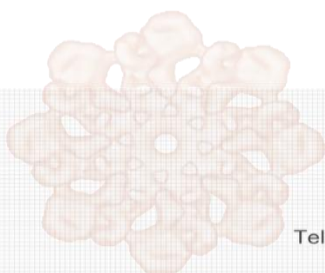
2. Add to the unsterile cell culture medium, then filter and sterilize:

Add 5 mL of Penicillin-Streptomycin-Amphotericin B Solution (100×) into 500 mL of unsterile cell culture medium. Then filter-sterilize before use.

Note

1. To ensure product stability, minimize the number of freeze–thaw cycles.
2. For your safety and health, please wear lab coats and gloves during the experiment.

3. For research use only. Not to be used in clinical diagnostic or clinical trials.



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