

User Manual

OriCell™ Penicillin-Streptomycin-Amphotericin B Solution (100X)

Catalog No. APSB-10001



Introduction

OriCell™ Penicillin-Streptomycin-Amphotericin B Solution, also known as "Triple Antibiotic" (Pen/Strep/AmB), is directly applicable to cell culture media to prevent microbial contamination. Penicillin primarily interferes with bacterial cell wall synthesis and is especially effective against Gram-positive bacteria. Streptomycin binds to the 30S subunit of bacterial ribosomes, inhibiting protein synthesis, and is effective against both Gram-negative and Gram-positive bacteria, with stronger activity against Gram-negative bacteria. Amphotericin B irreversibly binds to sterols in fungal cell membranes, forming transmembrane channels that disrupt membrane integrity, causing leakage of small intracellular molecules, thereby impairing fungal metabolism and inducing cell death.

OriCell™ Penicillin-Streptomycin-Amphotericin B Solution contains Penicillin G sodium salt at 10,000 U/mL, Streptomycin sulfate at 10 mg/mL, and Amphotericin B at 25 µg/mL. The recommended working concentrations in cell culture are 50–100 U/mL for penicillin, 0.05–0.1 mg/mL for streptomycin, and 0.25 µg/mL for amphotericin B. For use, dilute 1:100 by adding 1 mL of this solution to 99 mL of complete culture medium.

Note: This product is only provided for further scientific research. It is not intended for diagnostic, therapeutic, clinical, household, or any other applications.

When citing our products in academic journals, please indicate "OriCell+ Catalog Number, from Cyagen Biosciences (Guangzhou) Inc."

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- Pass the detection of bacteria, fungi, mycoplasma and endotoxins.
- Pass the detection of osmotic pressure.
- Pass the detection of product quality.

Please reference "COA" for details.

Product Stability and Storage Conditions

1. Store this reagent at -20°C and protect it from light. The shelf life is 2 years.
2. If the reagent cannot be used up within a short period, aliquot it and store appropriately.
3. Use it before the expiration date. Expired reagent may significantly affect performance.

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