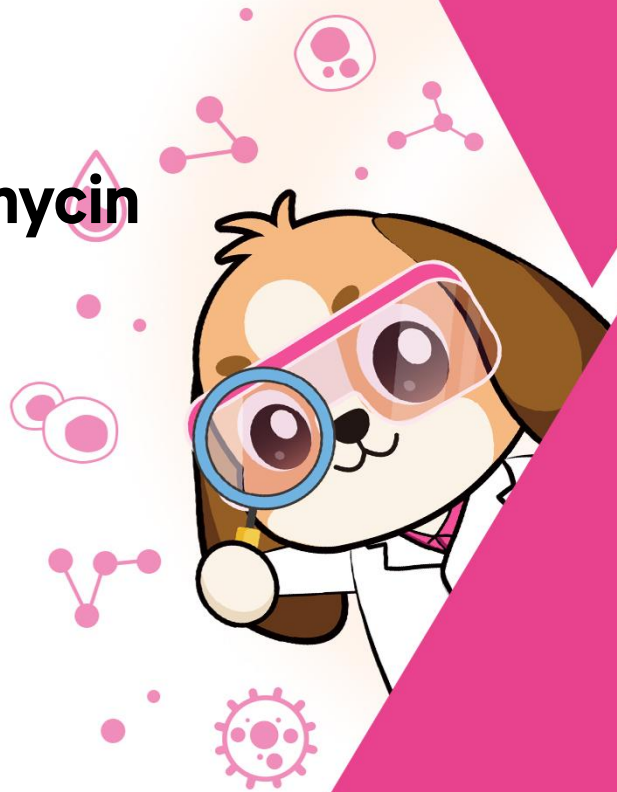


User Manual

OriCell™ Penicillin-Streptomycin Solution (100X)

Catalog No. ATPS-10001



Introduction

OriCell™ Penicillin-Streptomycin Solution (100X), also known as "Double Antibiotic" (Pen/Strep), 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 a stronger effect on Gram-negative bacteria. The combination of penicillin and streptomycin effectively prevents the majority of bacterial contaminations.

OriCell™ Penicillin-Streptomycin Solution (100X) contains Penicillin G sodium salt at 10,000 U/mL and Streptomycin sulfate at 10 mg/mL, sterilized by filtration. The recommended working concentrations in cell culture are 50–100 U/mL for penicillin and 0.05–0.1 mg/mL for streptomycin. 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 and store appropriately.
3. Use this reagent before the expiration date. Expired reagent may significantly affect performance.

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