

	<b>Catalog Number:</b>	<b>Size:</b>
Penicillin-Streptomycin Solution 5/5 (100X)	B21210	100 mL
Penicillin-Streptomycin Solution 10/10 (100X)	B21110	100 mL

## PRODUCT DESCRIPTION

Penicillin is an anti-bacterial agent produced by *Penicillium*. It interferes with the final stage of bacterial cell wall synthesis, the cross-linking of different peptidoglycan strands. Streptomycin is an anti-bacterial agent produced by *Streptomyces*. It binds to the 30S subunit of the bacterial 70S ribosome and blocks the initiation complex of protein synthesis.

Penicillin-Streptomycin Solutions are supplied in 0.85% saline and are available in 2 concentrations. The Penicillin-Streptomycin 5/5 Solution contains 5,000 units/mL penicillin (base) and 5,000 µg/mL streptomycin (base). The Penicillin-Streptomycin 10/10 Solution contains 10,000 units/mL penicillin (base) and 10,000 µg/mL streptomycin (base). The antimicrobial spectrum for Penicillin-Streptomycin Solutions include gram-positive and gram-negative bacteria. Penicillin-Streptomycin Solutions should be tested on the target cell line at multiple concentrations in order to evaluate cell line tolerance to the product. Cells should be observed daily for signs of toxicity such as rounding, loss of confluency, or vacuole formation.

## STORAGE AND HANDLING

Penicillin-Streptomycin Solution is supplied in gamma irradiated, sterile PETG or PETE bottles. We recommend Penicillin-Streptomycin Solution be stored frozen at a temperature of -5 °C to -20 °C. Always use aseptic techniques when handling antibiotic solutions.

## PRECAUTIONS

This antibiotic solution is hazardous. Review the Safety Data Sheet for additional information before handling this product.

When handling bio-hazardous materials such as human cells, safe laboratory procedures should be followed, and personal protective equipment should be worn.

## LIMITATIONS

- FOR LABORATORY RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.
- The safety and efficacy of this product in diagnostic or other clinical uses has not been established.
- Results may vary due to variations among tissue/cells derived from different donors or sources.