

Penicillin-Streptomycin Solution (100X)

Product Data Sheet

Product information for MIR 5960

SDS and Certificate of Analysis available at mirusbio.com/5960



SPECIFICATIONS

Storage	Store Penicillin-Streptomycin Solution at -20°C .
Product Guarantee	Six months from date of purchase, when properly stored and handled.

Product Description: Penicillin-Streptomycin is an antibacterial solution composed of penicillin (10,000 units/mL) and streptomycin (10,000 $\mu\text{g}/\text{mL}$) and is effective for preventing bacterial contamination of tissue culture cells. Penicillin is a β -lactam antibiotic which inhibits formation of peptidoglycan links in the cell wall of non-resistant bacteria. Streptomycin is an aminoglycoside that binds to the 16S rRNA of the 30S subunit of bacterial ribosomes and inhibits protein synthesis. The antimicrobial spectrum for the Penicillin-Streptomycin Solution includes gram-positive and gram-negative bacteria.

Product Usage: The recommended use concentration for the Penicillin-Streptomycin Solution in culture media is 1X (10 ml/L). Individual cell lines may react differently to this product, therefore we recommend testing multiple concentrations on the target cell line to evaluate tolerance. Observe cells daily for signs of toxicity such as loss of confluence, changes in morphology, or detachment. Decrease the Penicillin-Streptomycin concentration in media if cytotoxicity occurs.

Product Size: 100 mL

Form/Appearance: Clear solution (100X concentration)

Molecular Formula: $\text{C}_{16}\text{H}_{18}\text{N}_2\text{O}_4\text{S}$; $\text{C}_{21}\text{H}_{39}\text{N}_7\text{O}_{12}$
(Penicillin) (Streptomycin)

Precautions: Antimicrobial solutions can be hazardous. Review the Safety Data Sheet (SDS) for additional information before handling this product.

For Research Use Only

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▶ NOTES



SDS and Certificate of Analysis available at [mirusbio.com/5960](https://www.mirusbio.com/5960)

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