

Antibiotic-Antimycotic Solution (100X)

Product Data Sheet

Product information for MIR 5970

SDS and Certificate of Analysis available at mirusbio.com/5970



SPECIFICATIONS

Storage	Store Antibiotic-Antimycotic Solution at -20°C , protected from light.
Product Guarantee	Six months from date of purchase, when properly stored and handled.

Product Description: Antibiotic-Antimycotic Solution is composed of penicillin (10,000 units/mL), streptomycin (10,000 $\mu\text{g}/\text{mL}$), and amphotericin B (25 $\mu\text{g}/\text{mL}$) and is effective for preventing bacterial and fungal contamination of tissue culture cells. Penicillin is a β -lactam 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. Amphotericin B is an anti-fungal that increases the permeability of fungal cell membranes by binding to ergosterol. This Antibiotic-Antimycotic Solution is effective against gram-positive and gram-negative bacteria as well as yeast and other fungi.

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

Product Size: 100 mL

Form/Appearance: Light yellow solution (100X concentration)

Molecular Formula: $\text{C}_{16}\text{H}_{18}\text{N}_2\text{O}_4\text{S}$; $\text{C}_{21}\text{H}_{39}\text{N}_7\text{O}_{12}$; $\text{C}_{47}\text{H}_{73}\text{NO}_{17}$
(Penicillin) (Streptomycin) (Amphotericin B)

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/5970](https://www.mirusbio.com/5970)

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