

Antibiotic/Antimycotic Solution (100x)

Description

Catalogue No.	BSAS01 / 01F
Storage:	+2°C to +8°C
Categories	Biochemical / Buffer
Sterility	✓ Sterile-filtered

Description

Our Antibiotic/Antimycotic Solution is used to prevent bacterial and fungal contamination in cell culture applications. It contains a combination of penicillin and streptomycin, acting against gram-positive and gram-negative bacteria, and amphotericin B, which acts against yeast and multicellular fungi. The Antibiotic/Antimycotic Solution is provided as a ready-to-use 100x concentrate – no solubilization necessary. This product is viable for tissue culture, bacteria media, and many other applications.

Penicillins belong to the β -lactam family and act by inhibiting an essential enzyme for the synthesis of new membrane components (D-Alanin-Transpeptidase). Therefore penicillin is only effective on actively dividing cells.

Streptomycin, on the other hand, acts by binding to the 30S subunit of the bacterial ribosome. This mechanism inhibits protein synthesis within the bacterium, regardless of whether the cell is actively dividing or not.

Amphotericin B is a fungicide that binds with ergosterol in the fungus membrane, leading to the formation of pores. By this process, the fungus starts leaking important ions, finally resulting in cell death.

Streptomycin, on the other hand, works by attaching to the bacterial ribosome – 30S subunit. Whether or not the cell is actively dividing, this process prevents the bacteria from producing proteins. Amphotericin B is a fungicide that forms holes in the fungus membrane when it interacts with the ergosterol present there. Through this process, the fungus begins to release significant ions, ultimately leading to cell death.

Precautions

The product listed herein is for research use only and is not intended for the diagnosis field. The international literature is also constantly updated, it is best to confirm with us by email before ordering. The product listed herein all was produced by our laboratory. If you have any other requirements, please email us, to get your wanted product information.

Date Created

2024/07/03