Data Sheet (Cat.No.C0052)

TargetMol

Penicillin-Streptomycin-Amphotericin B Solution (100×), Sterile

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: -20°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Penicillin-streptomycin-amphotericin B solution, is a commonly used solution to reduce bacterial and fungal contamination in cell culture media. Penicillin can directly interfere with the synthesis of bacterial cell wall and indirectly alter the cell wall by triggering enzymatic reactions. Streptomycin can bind to the 30S subunit of the bacterial ribosomal and inhibit the synthesis of bacterial protein, ultimately leading to the death of susceptible bacteria. The combination of penicillin and streptomycin exhibits effective antibacterial activity against both gram-positive and gram-negative bacteria. Amphotericin B exerts its antifungal effect by binding to ergosterol on the bacterial cell membrane, which will damage membrane, lead to the increase of permeability, leakage of intracellular substances and the disruption of normal metabolism. TargetMol's penicillin-streptomycin-amphotericin B solution (100×) is a sterile, filtered and ready-to-use solution for cell culture. This solution contains 10,000 units/mL of penicillin G sodium salt, 10 mg/mL of streptomycin, and 25 μg/mL of amphotericin B, prepared in 0.85% NaCl. It is recommended for use in cell culture application at 100 units/mL of penicillin, 0.1 mg/mL of streptomycin and 0.25 μg/mL of amphotericin B. Dilute the product 100-fold for use.

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