

Technical Information

Antibiotic Antimycotic Solution 100X liquid

With 10,000 U Penicillin, 10mg Streptomycin and 25µg Amphotericin B per ml in 0.9% normal saline

Product Code: A01002

Application:- Penicillin and streptomycin are broad spectrum bacteriostatic and bacteriocidal agents effective against Gram positive and Gram negative bacteria. Amphotericin B is an antifungal agent effective against fungi and yeasts. Penicillin acts by inhibiting cell wall synthesis. Streptomycin blocks the initiation complex of protein synthesis by binding to the 30S subunit of bacterial 70S ribosome, thus interfering with the protein synthesis. Amphotericin B interferes with the cell membrane permeability of sensitive fungi and yeasts by forming channels and causing leakage of low molecular weight substances.

A01002 is a sterile filtered solution formulated to contain 10,000 units penicillin, 10mg streptomycin and 25µg amphotericin B per ml.

Methodology

Recommended use concentration is 10ml/L. Sensitive cell lines may react differently to this product. Hence it is recommended to determine optimum usage dose empirically for individual cell line.

Quality control

Appearance

Light yellow suspension.

pH

6.00 -7.00

Osmolality in mOsm/Kg H₂O

325.00 -365.00

Sterility

No bacterial or fungal growth is observed after 14 days of incubation, as per USP specification.

Amphoterecin Potency

25 µg/ml

Penicillin Potency

10,000 U/ml

Streptomycin Potency

10mg/ml

Cultural Response

1. No toxicity to cells.
2. Antibiotic sensitivity test

Endotoxin Content

NMT 0.5EU/ml

Storage and Shelf Life

Store at -20°C. Repeated freezing and thawing should be avoided. Once thawed, remaining portion can be aseptically dispensed into sterile container and frozen for future use. Solution is stable for 3 days at 37°C and for approximately 2 to 3 weeks at 2-8°C.

Shelf life of the product is 24 months.

Note: Precipitate in this product is normal. Slight precipitate may be visible if the bottles are not adequately warmed. However, the precipitate gets fully dissolved again on warming the solution at room temperature.

Use before expiry date given on the product label.

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conforms solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate.
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