

Technical Information

Antibiotic Solution 50X liquid

With 5000 U Penicillin and 5mg/ml Streptomycin in 0.9% normal saline

Product Code: A01003

Application:- Penicillin and streptomycin are broad spectrum bacteriostatic and bacteriocidal agents effective against gram positive bacteria and gram negative bacteria. 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.

A01003 is sterile filtered solution formulated to contain 5,000 units penicillin and 5mg streptomycin per ml.

Methodology

Recommended use concentration is 20ml/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

Colorless, clear solution.

pH

5.60 -6.20

Osmolality in mOsm/Kg H₂O

300.00 -340.00

Sterility

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

Penicillin Potency

5000 U/ml.

Streptomycin Potency

5 mg/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.

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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