

## Antibiotic Solution 50X liquid

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

**Product Code: A003**

### Product Description :

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.

A003 is sterile filtered solution formulated to contain 5,000 units penicillin and 5mg streptomycin per ml.

### Directions :

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 H<sub>2</sub>O

300.00 -340.00

#### Sterility

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

#### Penicillin potency

5,000 - 6,000 U/ml

#### Streptomycin Potency

5 - 6mg/ml.

#### Cultural Response

No toxicity to cells.

#### 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.

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### Disclaimer :

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