

Technical Information

Penicillin-Streptomycin-Neomycin Solution

With 5000 units Penicillin, 5mg Streptomycin and 10mg Neomycin per ml in Citrate buffer

Product Code: A01028

Application:- Penicillin, streptomycin and neomycin are broad spectrum bacteriostatic and bactericidal agents effective against Gram positive bacteria and Gram negative bacteria. Penicillin acts by inhibiting cell wall synthesis. Streptomycin and neomycin block the initiation complex of protein synthesis by binding to the 30S subunit of bacterial 70S ribosome, thus interfering with the protein synthesis. A01028 is sterile filtered solution formulated to contain 5000 units penicillin, 5mg streptomycin and 10mg Neomycin per ml in citrate buffer.

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

Colorless, clear solution.

pH

4.00 -7.00

Osmolality in mOsm/Kg H₂O

280.00 - 320.00

Sterility

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

Penicillin Concentration

5000 U/ml.

Streptomycin Concentration

5 mg/ml.

Neomycin Concentration

10 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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