

Technical Information

L-Glutamine-Penicillin-Streptomycin Solution

With 200mM L-Glutamine, 10000 units/ml Penicillin and 10mg/ml Streptomycin in 0.9% normal saline

Product Code: A01007

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. L-Glutamine is an essential amino acid required by all mammalian and insect cells grown in culture. It functions as an additional source of carbon and energy.

A01007 is a sterile filtered solution formulated to contain 200mM L-glutamine, 10,000 units penicillin and 10mg streptomycin 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

Colorless, clear solution.

pH

5.60 -6.60

Osmolality in mOsm/Kg H₂O

505.00 - 545.00

Sterility

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

Penicillin Concentration

10,000 - 12,000 U/ml.

Streptomycin Concentration

10 - 12 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. The solution is stable at 37°C for 3 days.

Stable for approximately 2 to 3 weeks at 2 - 8°C.

Shelf life of the product is 18 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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