

Penicillin-Streptomycin Solution TC-M-PS100 Size: 100ml

Description

Penicillin Streptomycin solution, also known as Pen Strep, is the most commonly used antibiotic solution for the culture of mammalian cells. Penicillin Streptomycin solution is used to maintain sterile conditions during cell culture. This solution contains 10,000 units/ml of Penicillin G Sodium Salt and 10,000 µg/mL of Streptomycin Sulfate. The antibiotics penicillin and streptomycin are used to prevent bacterial contamination of cell cultures due to their effective combined action against gram-positive and gram-negative bacteria. Penicillin inhibits bacterial cell wall synthesis. Streptomycin inhibits prokaryote protein synthesis.

Penicillin was originally purified from the fungi *Penicillium* and acts by interfering directly with the turnover of the bacterial cell wall and indirectly by triggering the release of enzymes that further alter the cell wall. Streptomycin was originally purified from *Streptomyces griseus*. It acts by binding to the 30S subunit of the bacterial ribosome, leading to inhibition of protein synthesis and death in susceptible bacteria.

The suggested working concentration is 10 ml/L. The solution is filtered sterilized. It is for research use only. It is not approved for human or animal use, or for application in in vitro diagnostic procedures.

Storage

Store at -20°C.

For Laboratory Use Only