

# Penicillin-Streptomycin (100×), sterile

## 1 Contents

Cat. No.	Product Name	Package
HY-K1006-10 mL	Penicillin-Streptomycin (100×), sterile	10 mL
HY-K1006-100 mL	Penicillin-Streptomycin (100×), sterile	100 mL

## 2 General Information

MCE Penicillin-Streptomycin (100×), sterile is used to prevent bacterial contamination of cell culture due to their effective combined action against gram-positive and gram-negative bacteria. Penicillin interferes with the final stage of synthesis of the bacterial cell wall. Streptomycin inhibits elongation at transpeptidation step during protein synthesis, and binds to 30S subunit, causing misreading.

Penicillin-Streptomycin (100×) is a liquid formulation which contains 10,000 units/mL of penicillin and 10 mg/mL of streptomycin in 0.9% NaCl. Common working concentration for penicillin is 100 units/mL, for streptomycin is 100 µg/mL.

## 3 General Protocol

Thaw product at room temperature, and add in a 1:100 (v/v) ratio to medium for cell culture.

## 4 Storage

Store at -20°C 12 months

## 5 Precautions

1. Avoid repetitive freeze-thaw cycles.
2. Always use sterile reagents, tubes and tips to avoid contamination.
3. This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.