

## Penicillin-Streptomycin Solution, 100×

**Cat. No:** PB180120

**Size:** 100mL

### General Information

<b>Product Form</b>	Liquid
<b>Concentration</b>	100×
<b>pH</b>	6.1-6.4
<b>Dissolvent</b>	10mM PBS (PH 6.2)
<b>Streptomycin sulfate</b>	10mg/mL
<b>Penicillin G</b>	10KU/mL
<b>Antimicrobial spectrum</b>	Gram-positive bacteria & Gram-negative bacteria
<b>Storage</b>	-5~-20℃ ,Shading Light
<b>Shipping</b>	Ice bag or dry ice
<b>Expiration date</b>	12 months

### Background

Penicillin-streptomycin solution mixture is the most commonly used antibiotic to prevent microbial contamination in vitro. Penicillin can interfere with the synthesis of bacterial cell wall, especially for Gram-positive bacteria. Streptomycin could bind to ribosomal ribosome for 30S and inhibit the synthesis of bacterial protein. It was effective for Gram-negative bacteria and Gram-positive bacteria, but especially for Gram-negative bacteria. The combined use of penicillin and streptomycin can prevent most bacterial contamination, but penicillin solution is sensitive to temperature and pH, easy to degrade at room temperature, and needs cryopreservation, the stability of penicillin solution is the most stable when pH is 6.0 - 6.5. Streptomycin was relatively stable, and pH 5.0-7.5 was the most stable.

### Notes

1. This product is for research use only.;
2. This product is sterilized by 0.1μm filtration.;
3. It is necessary to pay attention to the aseptic operation and avoid the pollution.;
4. It is not recommended to store this product at room temperature for a