

## **Penicillin-Streptomycin Solution (100×), Sterile**

**#Cat: NB-64-00011-100mL**

**Size: 100mL**

### **Description:**

Penicillin streptomycin solution, also known as Pen-Strep, is the most commonly used combined antibiotic solution against both gram-positive and gram-negative bacteria. Penicillin can directly interfere with the synthesis of bacterial cell wall and indirectly alter the cell wall by triggering enzymes. Streptomycin can bind to the 30S subunit of the bacterial ribosomal, and inhibit the synthesis of bacterial protein, ultimately leading to the death of susceptible bacteria. The solution is used to supplement cell culture media to control bacterial contamination.

Neo Biotech's penicillin streptomycin solution (100x) is a sterile, filtered and ready-to-use antibiotic solution for cell culture. This solution contains 10,000 units/mL of penicillin and 10 mg/mL of streptomycin, prepared in 0.9% NaCl. It is recommended for use in cell culture application at 100 units/mL of penicillin and 0.1 mg/mL of streptomycin. Dilute the product 100-fold for use.

### **Operation Manual:**

Add penicillin streptomycin solution (100x) to cell culture at a ratio of 100:1. (e.g. add 5 mL of this solution to 500 mL of cell culture medium). Mix thoroughly before use.

### **Storage:**

Store at -20°C for 12 months.

### **Precautions:**

1. Sterilization is necessary to avoid contamination.
2. Please dilute the product according to experimental needs before use.
3. Thaw at 2-8°C and shake thoroughly before use. Avoid repeated freeze- thaw cycles. It is recommended to store and freeze in small aliquots. Avoid long-time storage at room temperature or at 2-8°C for an extended period.
4. The product is for R&D use only, not for diagnostic procedures, food, drug, household or other uses.
5. Please wear a lab coat and disposable gloves.