Penicillin-Streptomycin Solution (100X)

Contains Penicillin G and Streptomycin in Cell Culture Water

Cat. No. CPS001 | Size: 100 ML

1. Product Description

Penicillin-Streptomycin Solution is the most widely used antibiotic solution in cell culture. By inhibiting Gram-positive bacteria and Gram-negative bacteria with Penicillin G and Streptomycin, animal cells can be protected from various contaminants during cell culture experiments. This product is a 100-fold concentrated solution and can be diluted 1/100 into the culture medium to be used (e.g., 10 ml per 1L of culture medium) to reach the commonly used concentration. However, usage amounts can be adjusted depending on the cell type or requirements.

2. Composition & Specifications

Components	Concentration	Unit	Targets
Penicillin G	10,000	unit/ml	Gram Positive Bacteria
Streptomycin	10,000	µg/ml	Gram Positive Bacteria & Gram Negative Bacteria

3. Product Quality Specifications

Appearance	pH	Osmolality	Sterility
Colorless clear solution	pH 5.5 ~ 7.0	40 ~ 70 mOsm/kg H_2O	Sterile

4. Storage Conditions and Precautions

Store frozen (-10°C or lower) protected from direct light. The expiration date is indicated on the product label; do not use expired products. Product degradation during storage may appear as precipitates, floating particles, or color change; discard if any are observed. Repeated thawing and refreezing can cause degradation, and the addition of extra substances may also cause degradation.

5. Usage Instructions and Precautions

This product is temperature-sensitive; thaw it at low temperatures first, and warm it only for the minimum required time at the actual usage temperature (e.g., 37°C) before use. This product is a sterile solution. Open the cap only in a sterile environment (e.g., a clean bench) using aseptic technique. It is recommended to use the entire contents after opening; otherwise, aliquot into a suitable sterile container and store properly.