Penicillin Solution (100X)

With Penicillin G in Cell Culture Water

Cat. No. CPEN001 | Size: 100 ML

1. Product Description

Penicillin Solution is one of the most commonly used antibiotics in animal cell culture, protecting cell culture experiments from various sources of contamination by suppressing Gram-positive bacteria. This product is a 100-fold concentrated solution and can be diluted 1/100 in the culture medium to be used (e.g., 10 mL per 1 L of medium) to reach the general working concentration. However, the usage amount can be adjusted depending on cell types or requirements.

2. Composition

Components	Concentration	Unit	Target
Penicillin G	10,000	unit/mL	Gram Positive Bacteria

3. Product Quality Specifications

Appearance	pH	Osmolality	Sterility
Colorless clear liquid	pH 5.50 ~ 6.50	25 ~ 45 mOsm/kg H_2O	Sterile

4. Storage Conditions and Precautions

Protect from direct light and store frozen (-20°C). 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 freezing and thawing cycles may cause degradation, and the addition of extra substances may also cause degradation.

5. Usage Instructions and Precautions

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.