



Penicillin-Streptomycin Solution

Cat #: BMC1030

Size: 100 mL

	Penicillin-Streptomycin Solution		
REF	Cat #: BMC1030	LOT	Lot #: Refer to product label
	Applicable cells: Mammalian cells		
	Storage: Stored at -20°C for 12 months		

Assay Principle

Penicillin Streptomycin Solution, also commonly referred to as "double antibody", is the most commonly used antibiotic in vitro culture to prevent microbial contamination, and is often formulated to 100 times the concentration of mother liquor. Among them, penicillin can interfere with the synthesis of bacterial cell wall, and is especially effective against gram-positive bacteria. Streptomycin can bind to the 30S subunit of the bacterial ribosome, inhibit the synthesis of bacterial proteins, and is effective against both gram-negative and Gram-positive bacteria, but is particularly effective against Gram-negative bacteria. The combination of penicillin and streptomycin can prevent most of the bacterial contamination, but penicillin solution is sensitive to temperature and pH, easy to degrade at room temperature, need to be frozen storage, pH 6.0-6.5 is the most stable; Streptomycin is relatively stable, and the most stable pH is 5.0-7.5. The content of penicillin in this product is 10 KU/mL, the content of streptomycin is 10 mg/mL, and the product can be directly added to the cell culture medium after 0.1 µm filter membrane filtration treatment.

Component Description

1. Remove Penicillin-Streptomycin Solution from the refrigerator at -20°C and thaw at 4°C.
2. Operate in a super clean table and add 1 mL Penicillin-Streptomycin Solution per 100 mL of medium.
3. Mix well and use.

Precautions

1. This product is a concentrated liquid (100×), please dilute it according to your needs.
2. Thaw at 4°C, shake well and use, do not freeze and thaw repeatedly, when the amount is small, it is recommended to pack frozen storage. It should not be stored at room temperature or 4°C for a long time, because antibiotics will degrade at higher temperatures.
3. Attention should be paid to aseptic operation when using to avoid contamination.

Disclaimer

The reagent is only used in the field of scientific research, not suitable for clinical diagnosis or other purposes.