

## Kanamycin Sulfate Solution, 100 ×

Cat. No. : PB180128

Size : 100mL

### General Information

|                        |   |
|------------------------|---|
| Product Form           | Liquid  |
| Concentration          | 100 ×   |
| pH                     | 7.8-8.0 <sup>®</sup>                            |
| Kanamycin Sulfate      | 10 mg/mL  |
| Dissolvent             | 0.85% NaCl                                      |
| Recommended working    | 30-100 µg/mL                                    |
| Antimicrobial spectrum | Gram-positive bacteria & Gram-negative bacteria |
| Storage                | -5~-20°C, shading light                         |
| Shipping               | Ice bag   |
| Expiration date        | 12 months                                       |

### Background

Kanamycin is an aminoglycoside antibiotic that binds to 30S ribosomes to cause misreading of mRNA codes, thereby inhibiting protein synthesis. It is effective against both Gram-positive bacteria and Gram-negative bacteria. Kanamycin can be used in cell culture to inhibit bacterial contamination. In molecular biology research, it is often used to selectively screen bacterial clones that have successfully transformed the kanamycin resistance gene. It is also commonly used in agrobacterium-mediated transformation experiments to selectively screen plant tissues carrying npt II (APH3) genes.

### Notes

1. This product is for research use only.
2. This product is sterilized by 0.1 µm filtration.
3. It is necessary to pay attention to the aseptic operation and avoid the pollution.
4. It is not suitable for long time storage at room temperature or 2-8°C.
5. Thaw in temperature or 37°C and mix fully before use. Avoid repeated freezing and thawing. It is recommended to aliquot the solution and store at -5~-20°C.
6. This product is a concentrated solution and dilute it to the desired concentration before use.