10 mg/mL Polymyxin B sulfate solution

Cat. No.: PB180131

Size: 10mL

Product Description

Polymyxin are antibacterial polypeptides derived from Bacilluspolymyxa culture solutions. There are five types of polypeptides: A, B, C, D, and E. Among them, Polymyxin B is the most common type. It is a mixture of two very similar compounds, polymyxin B1 and polymyxin B2. Polymyxin B sulfate is mainly used to inhibit the growth of Gram-negative bacteria. It has bactericidal effect on almost all gram-negative bacteria except Proteus, especially for Pseudomonas aeruginosa. The action principle of polymyxin B sulfate is to change the structure of the cell membrane by combining with the liposome A of bacterial lipopolysaccharide to make it more permeable, resulting in the leakage of small molecules such as purines, pyrimidines, phosphates, nucleotides and so on in bacterial cells, which leads to the death of bacteria.

Polymyxin B sulfate can be used to inhibit bacterial contamination in cell culture. It is also used in biological and medical research such as endotoxin antagonism and multi-drug resistant pathogenic solutions.

General Information

Form	Liquid
Concentration	10 mg/mL
Recommend working concentration	5-30 μg/mL
Size	10mL
pH	7.0-7.6
Solvent	0.9% normal saline
Storage Conditions	-5~-20°C. Protect from light
Transport Conditions	Ice bag
Expiration Date	12 months

Notes

1. This product is only used for scientific research or further research, not for diagnosis and treatment.
2. This product has been sterilized by 0.1 μm filter, and it can be used directly after melting.
3. When using this product, pay attention to your operation to prevent bacterial contamination.
4. The product should be thawed at 2-8°C, shaken well and then used, avoiding repeated freezing and thawing. If there are precipitates after thawing, shake them slightly (do not shake violently) and stand at room temperature for about 1 hour or 37°C incubator for 20-30 minutes to observe whether the precipitates can be dissolved normally, and if they can be dissolved, they can be used normally.
5. This product is a concentrated solution, please use it after dilution as needed; it can be used after dilution with complete medium 1:200, and the dilution ratio can also be adjusted within the working concentration range as needed.
6. It is recommended to use the regular at 2-8°C for preservation within one week. 5.It needs to be frozen at -5~-20°C when not in use for a long time, and it is not suitable to keep the storage at room temperature or 2-8°C for a long time. To avoid repeated freezing and thawing, it is recommended to store it in small quantities after subpackaging.