

# Polymyxin B (1,000×), Sterile

## 1 Packing list

Components	HY-K1044-10 mL	HY-K1044-100 mL
Polymyxin B (1,000×), Sterile	10 mL	100 mL

## 2 Introduction

Polymyxin B is a mixture of B1 and B2 polypeptides obtained from different strains of *Bacillus polymyxa*, with antibacterial activity against gram-negative bacteria. It can bind lipopolysaccharide (LPS) of the outer membrane of gram-negative bacteria and disrupts the cytoplasmic membrane by inducing large pores to allow nucleotide leakage in bacterial walls. This disrupts the permeability of the cytoplasmic membrane.

MCE Polymyxin B (1,000×), Sterile is a liquid formulation which contains 50 mg/mL of Polymyxin B sulfate in ddH<sub>2</sub>O. Common working concentration for Polymyxin B is 50 mg/L.

## 3 General Protocol

The Polymyxin B (1,000×), Sterile can be used according to one of the following methods:

1. Add Polymyxin B (1,000×), Sterile in proportion (1:1,000 (v/v)) to the sterile cell solution, mix well before use.
2. Add Polymyxin B (1,000×), Sterile in proportion (1:1,000 (v/v)) to the cell culture solution, filter and sterilize.

## 4 Storage

-20°C, 1 year

Keep away from light

## 5 Precautions

1. Avoid repetitive freeze-thaw cycles.
2. Always use sterile reagents, tubes and tips to avoid contamination.
3. This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.
4. For your safety and health, please wear a lab coat and disposable gloves to operate.