

Blasticidin S, Sterile

1 Contents

Components	HY-K1054-1 mL	HY-K1054-5 mL
Blasticidin S, Sterile (10 mg/mL)	1 mL	5 mL

2 Introduction

Blasticidin S is a peptidyl nucleoside antibiotic isolated from *Streptomyces griseochromogenes*. It acts by blocking hydrolysis of peptidyl-tRNA induced by release factors and inhibits peptide bond formation. It can be used as a selection agent in both mammalian cells and bacterial cells.

Resistance to Blasticidin S is conferred by bsr and BSD. Therefore, Blasticidin S is a popular and effective antibiotic for selecting vectors bearing the bsr or BSD gene in mammalian cell lines. The recommended working concentration ranges from 1 to 20 µg/mL depending on the cell line and 50–100 µg/mL for bacterial selection. For bacterial selection purposes, the salt content of the LB medium must remain low (<90 mM) and the pH should not exceed 7.0 to maintain the activity of Blasticidin S.

3 General Protocol

The Blasticidin S solution can be used according to the following methods:

1. Add Blasticidin S solution in proportion to the sterile cell culture solution, mix well before use.
2. Add Blasticidin S solution in proportion to the cell culture solution, filter and sterilize.

4 Storage

-20°C 2 years

5 Precautions

1. Minimize repeated freeze-thaw cycles.
2. Pay attention to aseptic operation to avoid contamination.
3. The working concentration of this product is set for the serum-containing basal medium. When used in a serum-free medium, the dosage should be appropriately reduced to avoid cytotoxicity.
4. This product is for R&D use only, not for drug, household, or other uses.
5. For your safety and health, please wear a lab coat and disposable gloves to operate.