

Penicillin-Streptomycin Solution (100×)

Introduction

Penicillin-Streptomycin Solution (100×) is a sterile antibiotic mixture intended for use in cell culture applications to prevent bacterial contamination. The solution is sterile-filtered and can be added directly to cell culture medium.

This product is formulated in 0.9% NaCl and contains 10,000 units/mL penicillin and 10 mg/mL streptomycin. The recommended final working concentration is 100 units/mL penicillin and 0.1 mg/mL streptomycin, achieved by a 1:100 dilution of the 100X stock solution.

100 mL of this solution is sufficient to prepare 10 L of complete growth medium.

Storage

Store at -20°C for one year.

Protocol

1. Add directly to sterile cell culture medium:

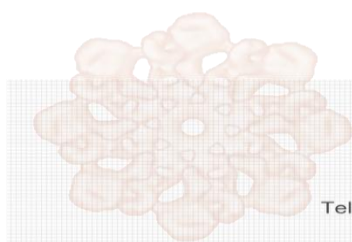
Add 5 mL of Penicillin-Streptomycin Solution (100×) into 500 mL of sterile cell culture medium. Mix well before use.

2. Add to the unsterile cell culture medium, then filter and sterilize:

Add 5 mL of Penicillin-Streptomycin Solution (100×) into 500 mL of unsterile cell culture medium. Then filter-sterilize before use.

Note

1. To ensure product stability, minimize the number of freeze–thaw cycles.
2. For your safety and health, please wear lab coats and gloves during the experiment.
3. For research use only. Not to be used in clinical diagnostic or clinical trials.



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