

Penicillin-Streptomycin-Gentamicin Solution (100×)

Introduction

Penicillin-Streptomycin-Gentamicin Solution (100×) is a sterile, ready-to-use triple antibiotic cocktail designed for prevention of bacterial contamination in cell culture. The solution is filter-sterilized and can be directly added to cell culture medium. It provides broad-spectrum antibacterial activity and also exhibits inhibitory effects against certain mycoplasma species.

This formulation is based on our Penicillin-Streptomycin Solution (100×) (Cat# K2803), with the addition of gentamicin. Penicillin is a β -lactam antibiotic that inhibits bacterial cell wall synthesis. Streptomycin and gentamicin are aminoglycoside antibiotics that act by inhibiting bacterial protein synthesis. Gentamicin additionally offers suppressive activity against selected mycoplasma contaminants.

This product is formulated in 0.9% NaCl and contains 10,000 units/mL penicillin, 10 mg/mL streptomycin and 5 mg/mL gentamicin. It is generally used in a 100X dilution. 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-Gentamicin Solution (100×) into 500 mL of sterile cell culture medium. Mix well before use.

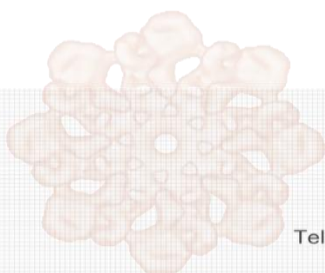
2. Add to the unsterile cell culture medium, then filter and sterilize:

Add 5 mL of Penicillin-Streptomycin-Gentamicin 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.



APEX BIO Technology

www.apexbt.com

7505 Fannin street, Suite 410, Houston, TX 77054.

Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com

