

Product Information

Penicillin/Streptomycin (100x)
Cat. No. PS-B (100 ml)

General Information

The antibiotics penicillin and streptomycin are used in cell culture to prevent bacterial contamination due to their effective combined action against gram-positive and gram-negative bacteria. Penicillin acts by interfering with the turnover of the bacterial cell wall. Streptomycin acts by binding to the 30S subunit of the bacterial ribosome, leading to inhibition of protein synthesis and death in susceptible bacteria. Penicillin/Streptomycin is provided as a ready to use 100x concentrate.

Applications:

- Prevention of cell culture contamination
- Most common antibiotic solution for the culture of mammalian cells

Product Specifications

Appearance	Clear frozen liquid
Storage and shelf life	Store at $\leq -15^{\circ}\text{C}$. Avoid repeated freeze-thaw cycles. Preparation of aliquots recommended. Once opened, store at $+4^{\circ}\text{C}$ and use within 4-6 weeks.
Shipping conditions	Frozen (Dry ice)
Thawing	Overnight at $+2^{\circ}\text{C}$ to $+8^{\circ}\text{C}$. Swirl gently to homogenize.
Working concentration	Recommended final concentration: 10 ml/L

Formulation

Component	Concentration
Penicillin G Sodium	10^7 Units/L
Streptomycin Sulfate	10000 mg/L
NaCl	9000 mg/L

Precautions and Disclaimer

The product is for research and further manufacturing only.

Help Needed?

If you have any further questions regarding this product, please do not hesitate to contact our cell culture experts by email (techservice@capricorn-scientific.com) or phone (+49 6424 944640).