

Product Information

Penicillin/Streptomycin (100x), with L-Glutamine
Cat. No. PSG-B (100 ml)

General Information

With a convenient one-step supplementation Penicillin/Streptomycin with L-Glutamine helps researchers to save time while reducing risks for contamination caused by multiple invasive supplementation schedules. 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. L-glutamine is an essential amino acid that is a crucial component of culture media that serves as a major energy source for cells in culture. Penicillin/Streptomycin with L-Glutamine is provided as a ready to use 100x concentrate.

Applications:

- Convenient one-step supplementation
- Reduces contamination risks

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
L-Glutamine	200 mM
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).