



Penicillin/Streptomycin (100x), with L-Glutamine LTA_nB-L05

General Information

With a convenient one-step supplementation Penicillin/Streptomycin with L-Glutamine helps researcher 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

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|------------------------|--|
| 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

| Components | Concentration |
|----------------------|----------------|
| L-Glutamine | 200 mM |
| Penicillin G Sodium | 10^7 Units/l |
| Streptomycin Sulfate | 10000 mg/l |
| NaCl | 9000 mg/l |

Precautions and Disclaimer

This product is for research use only.