



UAB "LT Biotech"

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## Penicillin/Streptomycin (100x)LTAnB-L04

### 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

- Antifungal spectrum
- Interacts with membranes of fungi

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
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.