

NutriCulture Penicillin Streptomycin Solution (100x)

Troubleshooting Guide

100 mL

Cat No: PS100

Use this guide for common preparation and contamination-control issues encountered with NutriCulture Penicillin Streptomycin Solution (100x). The product is intended for supplementation of cell culture media against gram-positive and gram-negative bacterial contamination and should be used at 1x final concentration; the detailed datasheet states 10 mL/L.

Before You Start - Quick Checks

1. Confirm the product identity and Cat No. PS100.
2. Use the 100x stock at 1x final concentration; the datasheet specifies 10 mL/L.
3. Store the concentrate at -20°C.
4. The formulation is intended for gram-positive and gram-negative bacterial contamination.
5. The detailed formulation lists Penicillin G sodium, Streptomycin sulfate, and NaCl.
6. Do not interpret this product as an antifungal supplement; the datasheet describes antibacterial use.

Problem	Most likely cause	Recommended action
Bacterial contamination appears despite supplementation	The working concentration may not be 1x or contamination may be introduced independently of medium supplementation.	Confirm that the 100x stock was added at 10 mL/L (1x) and review the culture-handling workflow.
Working medium was prepared at the wrong dilution	The 100x concentrate was not scaled correctly.	Use 1% v/v of the stock to obtain 1x final concentration: for example, 1 mL per 100 mL, 5 mL per 500 mL, or 10 mL per 1 L.
Fungal contamination is observed	The product is described for gram-positive and gram-negative bacterial contamination and the datasheet does not describe antifungal activity.	Do not use the Penicillin Streptomycin datasheet as support for fungal-control claims. Review the contamination-control strategy separately.
Stock was not kept frozen	The datasheet specifies storage at -20°C.	Use stock with a documented -20°C storage history when evaluating product performance.
Results differ between prepared medium batches	The final 1x concentration may not have been reproduced consistently.	Use calibrated volumetric preparation and keep the final concentration at 1x for each batch.
The wrong antibiotic supplement may have been selected	Penicillin Streptomycin may be confused with an antibiotic-antimycotic formulation.	Verify the product label and Cat No. PS100. This product contains penicillin and streptomycin and is described for bacterial contamination control.
A culture problem is attributed to the antibiotic solution without concentration verification	The supplement concentration may not have been confirmed.	First verify that the final concentration is exactly 1x. The datasheet does not provide a cell-line-specific toxicity protocol, so do not infer one from this document.
Supplementation is expected to replace aseptic handling	The datasheet supports use as an antibiotic mixture in culture media, not as a substitute for sterile technique.	Keep the product at the stated 1x concentration and troubleshoot the culture workflow separately rather than increasing the antibiotic level beyond the datasheet recommendation.

Still having trouble? Verify Cat No. PS100, -20°C storage, and a final 1x concentration (10 mL/L). If contamination persists, do not increase the dose based on this datasheet; review the culture-handling workflow and confirm that the problem is bacterial rather than fungal.