

Penicillin Streptomycin GlutaMAX™ Supplement (100X)

Catalog Number A5873601

Pub. No. MAN1000072 Rev. A00



WARNING! Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. Safety Data Sheets (SDSs) are available from [thermofisher.com/support](https://www.thermofisher.com/support).

Product description

Offering one-step supplementation convenience, Gibco™ Penicillin Streptomycin GlutaMAX™ Supplement (100X) helps researchers save time while reducing risks for contamination caused by multiple invasive supplementation schedules. At a 100X concentration, 1 ml of Penicillin Streptomycin GlutaMAX™ Supplement can supplement 99 mL of basal medium, yielding an iso-osmotic solution at final dilution. The supplement is citrate-buffered to minimize antibiotic degradation.

This solution contains 200 mM GlutaMAX™ Supplement, 10,000 units/mL of penicillin and 10,000 µg/mL of streptomycin. The antibiotics penicillin and streptomycin are used to prevent bacterial contamination of cell cultures due to their effective combined action against gram-positive and gram-negative bacteria. GlutaMAX™ Supplement is the heat-stable dipeptide, L-alanyl-L-glutamine and a direct substitute for L-glutamine. GlutaMAX™ Supplement eliminates problems associated with the spontaneous breakdown of L-glutamine into ammonia during incubation, allowing for longer lasting cultures. GlutaMAX™ Supplement is also available pre-supplemented in a variety of media formulations.

Contents and storage

| Product | Cat. No. | Amount | Storage | Shelf Life |
|---|----------|--------|---------------|------------|
| Penicillin Streptomycin GlutaMAX™ Supplement (100X) | A5873601 | 100 mL | -5°C to -20°C | 12 months |

Important information

Formulated to 10,000 units/mL of penicillin (base), 10,000 µg/mL of streptomycin (base) and 200 mM (100X) L-alanyl-L-glutamine dipeptide in a citrate buffer to maintain penicillin potency. Utilizes penicillin G (sodium salt) and streptomycin sulfate.

Use

Direct equimolar substitution for L-glutamine in both adherent and suspension mammalian cell culture. As a 100X concentration, Penicillin Streptomycin GlutaMAX™ Supplement (100X) is designed to be supplemented as 1 mL per 99 mL of basal medium, yielding an iso-osmotic solution at final dilution.

Limited product warranty

Life Technologies Corporation and its affiliates warrant their products as set forth in the Life Technologies' General Terms and Conditions of Sale at www.thermofisher.com/us/en/home/global/terms-and-conditions.html. If you have questions, contact Life Technologies at www.thermofisher.com/support.

Related products

Unless otherwise indicated, all materials are available through [thermofisher.com](https://www.thermofisher.com).

| Item | Source |
|--|----------|
| L-Glutamine (200 mM) | 25030081 |
| GlutaMAX™ Supplement 200 mM (100X) | 35050061 |
| Penicillin-Streptomycin | 15140122 |
| DMEM/F-12, GlutaMAX™ Supplement | 10565018 |
| RPMI 1640 Medium, GlutaMAX™ Supplement | 61870036 |



Revision history: Pub. No. MAN1000072 A00

| Revision | Date | Description |
|----------|--------------|---|
| A00 | 1 April 2024 | New document for Penicillin Streptomycin GlutaMAX™ Supplement (100X). |

The information in this guide is subject to change without notice.

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