

# Penicillin-Streptomycin-Amphotericin B Solution

PCS-999-002<sup>TM</sup>

## Description

Penicillin-Streptomycin-Amphotericin B Solution is used to reduce the chance of microbial contamination while propagating primary cells in the culture. In general, we do not recommend the use of antibiotics and antimycotics when culturing cells as these compounds may mask contamination by susceptible bacteria and fungi while permitting mycoplasma to flourish unnoticed. In addition, these drugs may interfere with the metabolism of sensitive cells (ie, primary cells) in culture, especially when the cells are grown in low serum or serum-free environments. However, one may elect to introduce antibiotics and antimycotics to primary cultures for short periods as a safeguard.

**Volume:** 1.0 mL

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## Storage Conditions

**Product format:** Frozen

**Storage conditions:** -20°C or colder

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## Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

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## BSL 1

ATCC determines the biosafety level of a material based on our risk assessment as

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guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

## Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at [www.atcc.org](http://www.atcc.org).

## Handling Procedures

1. Take the vial from storage and thaw. Mix well or vortex briefly to make sure the solution is homogenous.
2. Using aseptic technique and working in a laminar flow hood or biosafety cabinet, transfer the appropriate volume of the antibiotic/antimycotic solution to complete media.
3. Dilute 1:1000 when using to supplement complete growth media; i.e., 0.5 mL of Penicillin-Streptomycin-Amphotericin B Solution per 500 mL of complete cell-specific media.
4. Dilute 1:100 when using during cell isolation procedures; i.e., 0.5 mL of Penicillin-Streptomycin-Amphotericin B Solution per 50 mL of complete cell-specific growth media.
5. Tightly cap the bottle (or other flask) of supplemented growth medium and swirl the contents gently to assure a homogeneous solution. Do not shake forcefully to avoid foaming. Label and date the flask.
6. Fully supplemented media should be stored in the dark at 2°C to 8°C (do not freeze). When stored under these conditions, fully supplemented media is stable for 30 days.

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## Quality Control Specifications

**Bacterial and fungal testing:** Not detected

**Mycoplasma contamination:** Not detected

**Functional tests:** Each lot is assessed for acceptable growth of human primary cells compared to control. A *Certificate of Analysis (COA)* is available upon request for each lot of *Penicillin-Streptomycin-Amphotericin B Solution*.

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## Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Penicillin-Streptomycin-Amphotericin B Solution (ATCC PCS-999-002)

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## References

References and other information relating to this material are available at [www.atcc.org](http://www.atcc.org).

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## Warranty

The product is provided 'AS IS' and the viability of ATCC® products is warranted for 30 days from the date of shipment, provided that the customer has stored and handled the product according to the information included on the product information sheet, website, and Certificate of Analysis. For living cultures, ATCC lists the media formulation and reagents that have been found to be effective for the product. While other unspecified media and reagents may also produce satisfactory results, a change in the ATCC and/or depositor-recommended protocols may affect the recovery, growth, and/or function of the product. If an alternative medium formulation or reagent is used, the ATCC warranty for viability is no longer valid. Except as expressly set forth herein, no other warranties of any kind are provided, express or implied, including, but not limited to, any implied warranties of



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merchantability, fitness for a particular purpose, manufacture according to cGMP standards, typicality, safety, accuracy, and/or noninfringement.

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## Revision

This information on this document was last updated on 2025-10-13

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