**PRODUCT DESCRIPTION**

Penicillin is an anti-bacterial agent produced by *Penicillium*. It interferes with the final stage of bacterial cell wall synthesis, the cross-linking of different peptidoglycan strands. Streptomycin is an anti-bacterial agent produced by *Streptomyces*. It binds to the 30S subunit of the bacterial 70S ribosome and blocks the initiation complex of protein synthesis. Amphotericin B is an anti-fungal agent produced by *Streptomyces*. It interferes with the permeability of cell membranes of sensitive fungi and yeast. Amphotericin B forms a complex with cholesterol and causes leakage of low molecular weight substances from the cells.

Antibiotic-Antimycotic Solution contains 10,000 units/mL Penicillin (base), 10,000 μg/mL Streptomycin (base), and 25 μg/mL Amphotericin B. It is effective against the most common forms of cell culture contamination. Antibiotic-Antimycotic Solution is supplied in 0.85% saline.

The recommended use concentration for this antibiotic solution in culture media is 10 mL/L. Individual cell lines may react differently to the toxic effects of this product; therefore, the optimal use dosage must be determined empirically for each cell line used. Antibiotic-Antimycotic Solution should be tested on the target cell line at multiple concentrations in order to evaluate cell line tolerance to the product. Cells should be observed daily for signs of toxicity such as rounding, loss of confluency, or vacuole formation.

**STORAGE AND HANDLING**

Antibiotic-Antimycotic Solution is supplied in gamma irradiated, sterile PETG or PETE bottles. We recommend that Antibiotic-Antimycotic Solution be stored frozen at a temperature of -5 °C to -20 °C. Always use aseptic techniques when handling antibiotic solutions.

**PRECAUTIONS**

This antibiotic solution is hazardous. Review the Safety Data Sheet for additional information before handling this product.

When handling bio-hazardous materials such as human cells, safe laboratory procedures should be followed, and personal protective equipment should be worn.

**LIMITATIONS**

- FOR LABORATORY RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.
- The safety and efficacy of this product in diagnostic or other clinical uses has not been established.
- Results may vary due to variations among tissue/cells derived from different donors or sources.