

# Amphotericin B Solution

## (Antifungal Agent)

Catalog Number: CO013

Storage: -20°C

Size: 10mL (0.25mg/mL)

### Intended Use:

This product is a cell culture-grade antifungal reagent designed to prevent fungal contamination (including yeasts and molds) in in vitro cell culture systems. It is suitable for primary cells, continuous cell lines, stem cells, and other mammalian cell culture applications. It can be used alone or in combination with penicillin-streptomycin (Pen-Strep) antibiotics in culture media to provide enhanced protection against microbial contamination.

### Mechanism of Action:

Amphotericin B binds to ergosterol in fungal cell membranes, forming transmembrane pores that increase membrane permeability, leading to leakage of intracellular components and fungal cell death.

### Key Features:

- Broad-spectrum antifungal activity against yeasts and filamentous fungi
- Compatible with a wide range of mammalian cell culture systems
- Ready-to-use format for direct addition to culture media
- Effective for routine contamination prevention in cell culture
- Can be used in combination with antibiotics such as penicillin/streptomycin for enhanced contamination control

### Recommended Working Concentration:

Typical final concentration: 0.25–2.5 µg/mL

(Optimization is recommended depending on cell type and experimental conditions).

For prophylactic (prevention) use, the recommended working concentration is 0.5 mg/L (0.5 µg/mL) in culture medium. For treatment of existing fungal contamination, higher concentrations may be required and should be determined empirically based on cell type sensitivity and experimental conditions.

### Directions for Use:

Add the required amount directly to complete culture medium under sterile conditions and mix thoroughly before use. It is recommended to prepare fresh working medium and avoid prolonged storage after dilution.

### Precautions:

- Higher concentrations may exhibit cytotoxicity in sensitive cell types; titration is recommended before use
- Avoid long-term routine use to prevent masking underlying contamination
- For research use only; not intended for diagnostic or therapeutic applications
- Maintain aseptic handling to avoid secondary contamination

### Storage Conditions:

Store at -20°C, protected from light. Avoid repeated freeze-thaw cycles. Short-term storage at 2–8°C is acceptable.

### Shelf Life:

Refer to product label. Stable under recommended storage conditions.

**FOR RESEARCH USE ONLY, NOT FOR USE IN DIAGNOSTIC AND THERAPEUTIC PROCEDURES**