

PRODUCT DATA SHEET

Amphotericin B Solution

Description

Amphotericin B (Fungizone®) 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. Since it only acts on membranes that contain cholesterol, it has no effect on bacteria.

Amphotericin B is a strong antimycotic agent that can effectively inhibit or eradicate fungus and/or yeast contamination in cell cultures and is especially useful when establishing contamination-free primary cell cultures. Amphotericin B can be toxic to some cell lines, especially at higher dosages. For this reason, the lowest possible dose should be used to achieve the desired result.

Amphotericin B is supplied as a 250 µg/ml stock solution in deionized water. This solution also contains sodium deoxycholate and sodium phosphate to aid in solubilization of the product.

Product Use

The recommended use concentration for Amphotericin B in culture media is 0.25 to 2.5 µg/ml. 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. Amphotericin B 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. Use a dose of Amphotericin B that is at least one or two-fold less than the toxic dose to treat your cultures. In general, higher levels of Amphotericin B should be reserved for short-term treatment of active or suspected culture contamination with yeast or fungus, while lower doses are used for preventative maintenance of the culture.

Precautions

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

Storage and Handling

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

Shipping

The Amphotericin B is shipped frozen by next day air in insulated containers packed with dry ice.

This product is manufactured for research and development purposes only. It is not intended for any human or animal diagnostic, therapeutic or other clinical uses. It is also not for agricultural, food, drug, cosmetic or household use. The use of these products must be supervised by a person technically qualified to handle potentially hazardous material.