

## Product Information

### Amphotericin B solution

Catalog Number **A2942**  
Storage Temperature  $-20\text{ }^{\circ}\text{C}$

CAS RN 1397-89-3

#### Product Description

Molecular Formula:  $\text{C}_{47}\text{H}_{73}\text{NO}_{17}$

Molecular Weight: 924.08

Melting Point:  $>170\text{ }^{\circ}\text{C}$  with decomposition

$\lambda_{\text{max}}$ :<sup>1</sup> 406 nm, 382 nm, 363 nm, 345 nm (MeOH)

Amphotericin B, many times referred to as Fungizone™, is an antimycotic. Normal usage is 2.5 mg/L along with the addition of penicillin and streptomycin to the medium. This product is used at 10 mL/L of medium. Amphotericin B is stable in culture at  $37\text{ }^{\circ}\text{C}$  up to 3 days. To kill yeast and fungi, it is recommended to use this product at 2–4 times the normal level (20–40 mL/L) in medium without penicillin and streptomycin, for 2–3 subcultures. Then, return the cells to normal medium conditions. In the meantime, clean the incubator with SigmaClean water bath cleaner (Catalog Number S5525) and in addition, add this cleaner to the water reservoir to prevent recontamination.

This product is supplied as 250  $\mu\text{g}/\text{mL}$  Amphotericin B in deionized water. This product is a solution containing Amphotericin B with the following components added to improve its solubility: sodium deoxycholate, sodium chloride, and sodium phosphate.

#### Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

#### Preparation Instructions

Although the specification for this item is a clear, yellow solution, it is not unusual for this material to form a precipitate in aqueous solutions. Many times, thoroughly mixing the solution will redissolve most of the precipitate. However, this precipitate will probably not fully resolubilize, but the amphotericin B should still be suitable for use.

#### Storage/Stability

Stable for 3 days in culture at  $37\text{ }^{\circ}\text{C}$ . Stable at  $2\text{--}8\text{ }^{\circ}\text{C}$  for 2–3 weeks. For long term stability, solutions should be kept frozen at  $-20\text{ }^{\circ}\text{C}$ .

#### Reference

1. The Merck Index, 10th ed., Entry# 611.

Fungizone is a trademark of E. R. Squibb and Sons, L.L.C.

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