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Product Information

Amphotericin B preparation

Product Number **A 2942**

Storage Temperature $-20\text{ }^{\circ}\text{C}$

Product Description

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

Molecular Weight: 924.1

CAS Number: 1397-89-3

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

λ_{max} : 406 nm, 382 nm, 363 nm, 345 nm (MeOH)¹

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 °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 (Product No. S 5525) and in addition, add this cleaner to the water reservoir to prevent recontamination.

This product is supplied as 250 µg/ml Amphotericin B in deionized water. This product is made from Product No. A 9528 powder. (Product No. A 9528 is indicated to have approximately 45% Amphotericin B, 35% sodium deoxycholate; the balance being sodium phosphate).

Precautions and Disclaimer

For Laboratory Use Only. Not for drug, household or other uses.

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

References

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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