



Amphotericin B Solution, 100X

Catalog number

A2230

Supplier

United States Biological

Amphotericin B is a polyene antifungal agent for yeast, mold and mycoplasma. It was first isolated by Gold, et al., from *Streptomyces nodosus* in 1955. It is an amphoteric compound composed of a hydrophilic polyhydroxyl chain along one side and a lipophilic polyene hydrocarbon chain on the other. Amphotericin B is poorly soluble in water. Amphotericin B binds to sterols, preferentially to the primary fungal cell membrane sterol, ergosterol. This binding disrupts osmotic integrity of the fungal membrane, resulting in leakage of intracellular potassium, magnesium, sugars, and metabolites and then cellular death.

Used in the preparation of baculoviral stocks

pH

10-12

Activity

250ug/ml

Sterility

Aseptically prepared by 0.2um filtration

Working Concentration

Add aseptically 1ml concentrate to 100ml culture medium.

Storage and Stability

May be stored at 4°C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20°C. Aliquots are stable for 6 months after receipt at -20°C.

Formulation

Supplied as an easy to use 100X concentrate. Color is light yellow.

Grade

Cell Culture Grade

Storage

-20°C

MW

924.09

Formula

C47H73NO17



Reference

1. Ausubel, F. M., et al., Current Protocols in Molecular Biology, John Wiley (1992)
2. Maniatis, T., et al., Molecular Cloning: A Laboratory Manual, Cold Spring Harbor Laboratory Press (1989)
2. Asher, I.M., et al.: Anal. Profiles Drug Subs., 6, 1, (1977)