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Amphotericin B solubilized from *Streptomyces sp*

可溶性两性霉素 B

CAS Number: 1397-89-3 C₄₇H₇₃NO₁₇ MW 924.08

产品编号	粉末含量	两性霉素B有效含量
AE437-25mg	55mg	25mg

● Brand: AmrescoE437

● Storage: 2-8°C

● Specification:

Form.....fine, light yellow, lyophilized powder

Stock solution.....2.5mg/ml(以有效含量计算) in H₂O

● Product description:

Amphotericin B is a polyene antifungal antibiotic from *Streptomyces sp*. It has a high affinity for sterols, primarily ergosterols, of fungal and bacterial cell membranes. After binding to sterols, it forms channels in the membranes, causing small molecules to leak out. Amphotericin B is effective against fungi and yeast. Normal usage for maintenance of cell cultures is 2.5 mg/l with penicillin and streptomycin in the medium. For cultures already contaminated with yeast and fungus, it is recommended to use this product at 2-4 times the normal level (5-10 mg/l), without penicillin and streptomycin for 2-3 subcultures. Once the infection is under control, normal maintenance levels of amphotericin B should be used. Amphotericin B is not soluble in H₂O but in DMSO. Amphotericin B solubilized is a colloidal suspension of Amphotericin B, using sodium deoxycholate as the solubilizing agent. The product is approximately 45% amphotericin B, 35% sodium deoxycholate; the balance being sodium phosphate and sodium chloride.

● Preparation instructions:

Amphotericin B solubilized is reconstituted at the water in a 2.5 mg/ml stock solution. The solution must be filtered to sterilize by 0.22µm membrane.

● Storage/Stability:

The lyophilized powder amphotericin B solubilized can be stable for 5 years under -20°C protected from air and light. Stock solutions at 2-8 °C are stable for up to 1 month.

● Reference:

1. Bolard, J., *Biochim. Biophys. Acta*, 864: 257-304 (1986).

2. Venegas, B., *et al.*, *Biophys. J.*, 85, 2323-32 (2003).

3. Vertut-Doi, A., *et al.*, *Biochem. Biophys. Res. Commun.*, 157, 692-97 (1988).
4. Sau K., *et al.*, *J. Biol. Chem.*, 278, 37561-68 (2003).
5. Perlman, D., *Methods Enzymol.*, 58, 110-16 (1979).