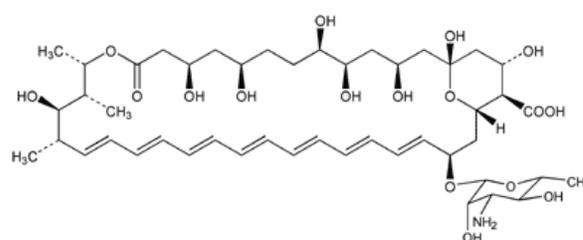


Amphotericin B*Cell Culture-Antibiotics***Catalogue Number:** CO013/CO013.10/CO014**Product Description:**

Amphotericin B is a polyene antifungal agent, 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 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 induces K⁺ leakage which is separate from its lethal action, as was demonstrated in human erythrocytes and is due to the inhibitory effect on the Na⁺/K⁺ pump. At sub-lethal concentrations, this agent stimulates either the activity of some membrane enzymes or cellular metabolism, in particular stimulation of some cells of the immune system. Amphotericin B is poorly soluble in water and now available in four formulations. The classic amphotericin B deoxycholate (Fungizone™) formulation has been available since 1960 and is a colloidal suspension of amphotericin B. A bile salt, deoxycholate, is often used as the solubilizing agent.



amphotericin B

Molecular Formula: C₄₇H₇₃NO₁₇**Molecular Weight:** 924.08**Application:** Amphotericin B is an effective agent against fungi and yeast.**Formulation:** see table below**Storage:** -20 °C**Working Concentration:** 2.5 mg/L

<i>Catalogue Number:</i>	<i>Concentration</i>	<i>Volume</i>	<i>Solvent</i>	<i>Appearance*</i>
CO013	0.25 g/L	100 mL	1% DMSO in water	Hazy, yellow solution
CO013.10	0.25 g/L	10 mL	1% DMSO in water	Hazy, yellow solution
CO014	2.5 g/L	1 mL	100% DMSO	Clear, yellow solution

*The hazy appearance does not affect its anti-fungal and bacterial activity.

FOR RESEARCH USE ONLY, NOT FOR USE IN DIAGNOSTIC AND THERAPEUTIC PROCEDURES



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