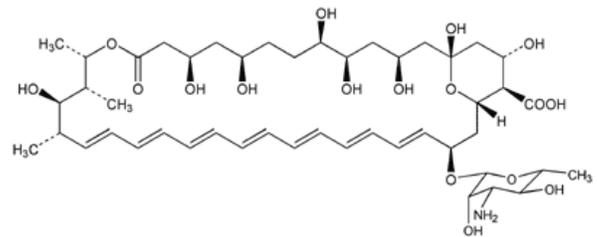


## Amphotericin B 250 mg/L

Catalogue #: CO013.10  
Storage: -20 °C  
Size: 10mL

### 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<sup>+</sup> leakage which is separate from its lethal action, as was demonstrated in human erythrocytes and is due to the inhibitory effect on the Na<sup>+</sup>/K<sup>+</sup> 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 used as the solubilizing agent.



**Molecular formula:** C<sub>47</sub>H<sub>73</sub>NO<sub>17</sub>

**Molecular weight:** 924.08

**Application:** Amphotericin B is an effective agent against fungi and yeast.

**Formulation:** 250 mg/L in DMSO

**Working concentration:** 2.5 mg/L

For resaech use only