

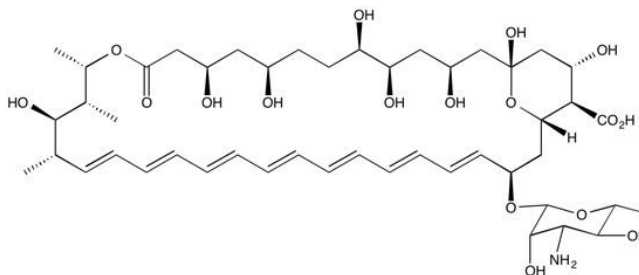
**Catalog # 10-2430**

**Amphotericin B**

CAS# 1397-89-3

NSC 527017

Lot # X101413



Amphotericin B is a powerful antimycotic, effective against a wide variety of fungi, including yeast, via two mechanisms: forming pores in the plasma membrane, leading to leakage and death<sup>1</sup>, and causing oxidative stress<sup>2</sup>. Other mechanisms have more recently been proposed, including formation of intracellular amphotericin B-containing vesicular bodies that target vacuoles.<sup>3</sup> Amphotericin B is also effective against some parasites, such as *Leishmania* spp.<sup>4</sup> Because of its potency and broad-spectrum activity, it is a common additive used to maintain sterility in cell culture and viral transport media.

- 1) Kinsky *et al.* (1970), *Antibiotic interaction with model membranes*; Annu. Rev. Pharmacol., **10** 119
- 2) Sokol-Anderson *et al.* (1986), *Amphotericin B-Induced Oxidative Damage and Killing of Candida Albicans*; J. Infect. Dis., **154** 75
- 3) Grela *et al.* (2019), *Modes of the antibiotic activity of amphotericin B against Candida albicans*; Sci. Rep., **9** 17029
- 4) Paila *et al.* (2010), *Amphotericin B inhibits entry of Leishmaniz donovani into primary macrophages*; Biochem. Biophys. Res. Commun., **399** 429

**PHYSICAL DATA**

Molecular Weight:	924.08
Molecular Formula:	C <sub>47</sub> H <sub>73</sub> NO <sub>17</sub>
Purity:	90% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 18 mg/ml)
Physical Description:	Yellow or orange solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**