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## TECHNICAL INFORMATION

Catalog Number: 100565, 194538

**Polymyxin B Sulfate**

**CAS #:** 1405-20-5

**Synonym:** Aerosporin

**Physical Description:** White powder

**Activity:** Not less than 6000 units (USP)/mg

**Solubility:** Soluble in water, 1 mM HCl

**Description:** An antibiotic which binds to and interferes with the permeability of the bacterial cytoplasmic membrane (gram-negative bacteria). Effective concentration is typically 50 mg/L. Stable at 37°C for approximately 5 days.<sup>4</sup>

**References:**

- *Merck Index*, **12th Ed.**, No. 7734.
- Brownlee, Jones, *Biochem. J.*, **v. 43**, XXV (1948).
- Hausmann, Craig, *J. Am. Chem. Soc.*, **v. 76**, 4892 (1954).
- Perlman, D., "Use of Antibiotics in cell culture media." *Methods in Enzymology: Cell Culture*, Jakoby, W.B. and Pastan, I.H. (eds.), Academic Press: New York, p. 112 (1979).
- Wilkinson, Lowe, *Nature*, **v. 202**, 1211 (1964)
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- Weiss et al., *Antibiot. Chemother.*, **v. 7**, 374 (1957).