



Polymyxin B Sulfate

An antibiotic active against gram-negative bacteria, interfering with cell membrane permeability

Polymyxin B Sulfate interfering with cell membrane permeability by binding to it. Organisms that are not sensitive to Polymyxin B Sulfate have cell walls which prevent access of it to cell membrane. Polymyxin B Sulfate shows no activity against gram-positive bacteria and also anaerobes, but, its activity against gram-negative bacteria like non-fermentative and Enterobacteriaceae is proven.

Cat. Number	AS-2034
CAS Number	1405-20-5
MDL Number	MFCD00131991
Pubchem	310279122
Molecular Weight	1301.56 g/mol
Molecular Formula	$C_{56}H_{98}N_{16}O_{13} \cdot H_2SO_4$
Storage Temperature	+4 °C
Form and Color	Powder / White to off-white
Assay	≥ 6000 IU/mg
Heavy Metals	≤ 20 ppm
Specific Optical Rotation [α] _D	-90 to -78
FT-IR Spectrum	Corresponds to reference spectrum
Loss on Drying	≤ 7%
pH Value	5 – 7.5
Synonym	Mastimyxin / Aerosporin