

Kanamycin Sulfate

Cat. # P8010-5, P8010-25, P8010-100

Cas#	25389-94-0
Molecular Weight	582.6 g/mol
Formula	$C_{18}H_{36}N_4O_{11} \cdot H_2SO_4$
Source	Synthetic
Physical Appearance	Powder
Solubility	Soluble in water up to 50 mg/ml, much less solubility in ethanol.
Stock Solution	Prepare 1000X stock in water at 50 mg/ml, aliquot and stock at -20°C up to six months (see procedure below).
Working Concentration	50 µg/ml
Quality Assurance	> 750 µg/mg; Tested by colony formation assay.
Description	Kanamycin sulfate is an aminoglycosidic antibiotic that inhibits the growth of Gram-positive and Gram-negative bacteria and mycoplasmas in cell culture.
Preparation of Stock	Preparation of 1000X stock at 50 mg/ml: 1) Dissolve 5 grams Kanamycin sulfate in 100 ml distilled water. 2) Mix to ensure completely soluble. 3) Sterile by filtering through a 0.2 µm filter. 4) Aliquot and store at -20°C up to six months.
Shipping & Storage	Eligible for room temperature shipping. Store powder desiccated at room temperature up to 12 months.