CERTIFICATE OF ANALYSIS

KANAMYCIN SULFATE, *POWDER*

Catalogue No: 400-145-**

Lot No: 400145032

Exp. Date: 07/2028

CAS #: 25389-94-0

M.W.: 582.58

MSDS: Available upon request

Shipping: Ambient

Storage: Store ambient at 15 to 30°C

TEST	SPECIFICATION	UNITS	RESULTS
Appearance	White or almost white crystalline powder		Meet specification
pH (1%, water) @ 25°C	6.5-8.5		8.2
Potency (Anhydrous)	>750	µg/mg	767
Solubility (50 mg/ml in water)	Clear and colorless		Meet specification
Specific Rotation	------	°	+119
Loss on Drying	≤ 5.0	%	0.6
Residue on ignition	-----	%	0.08

ADDITIONAL INFORMATION:

PREPARATION: To prepare a stock solution from powder, add the appropriate amount of powder to sterile water (50mg/ml) while mixing (not reverse), as adding water to the powders may result in insoluble mixtures, which upon filtering may lose potency. After insuring that the resultant solution is transparent, sterile filter. Store small aliquots at appropriate temperature until use. Prior to use of the media, add the appropriate amount of antibiotics to sterile media in order to obtain the required working concentration. Mix well and sterile filter (optional, may reduces chances of contamination). Working concentration: Selection of the proper working concentration is a balance between strong antibiotic effect and the concern for negative effects to the cells of importance. Suggested working concentration: 100µg/mL (should be varied above or below the suggested value to optimize conditions for the cells).