

Kanamycin Acid Sulfate, for BioProcessing PRODUCT DATA SHEET

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Product Name:	Kanamycin Acid Sulfate, for BioProcessing
Product Number:	K012
CAS Number:	64013-70-3
Molecular Formula:	$C_{18}H_{36}N_4O_{11} \cdot 2H_2SO_4$
Molecular Weight:	680.65
Storage Conditions:	2-8 °C
Description:	Kanamycin Acid Sulfate, for BioProcessing is an aminoglycoside antibiotic often used to select for bacteria which have been successfully transformed with a plasmid conferring kanamycin resistance. Kanamycin Acid Sulfate, for BioProcessing is very soluble in aqueous solution at 92.3 mg/mL.
	Standard grade kanamycin is composed of a mixture of three different fractions: Kanamycin A, B, and C. TOKU-E offers five forms of kanamycin:
	 Kanamycin Sulfate, for BioProcessing <u>Kanamycin sulfate, USP</u> <u>Kanamycin Acid Sulfate, EW,</u> <u>Kanamycin A sulfate, EvoPure®</u> <u>Kanamycin B sulfate, EvoPure®</u>
	EvoPure® products are purified single antibiotic fractions, most >99% pure. High purity EvoPure® kanamycin products can be used to analyze the specific effects of individual kanamycin fractions.
Mechanism of Action:	Aminoglycosides target the 30S ribosomal subunit resulting in an inability to read mRNA ultimately producing a faulty or nonexistent protein.
Spectrum:	Kanamycin is a broad spectrum antibiotic; however, it is mostly used against aerobic gram negative bacteria.

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