

50mg/mL Kanamycin Ready-Made Solution

Catalog #: 120-349-731 10 x 1mL

Store at: - 20°C

Shipped at: dry ice

Description

Quality Biological's (QBI) Kanamycin Ready-Made Solution is prepared from USP Grade Kanamycin sulfate salt using QBI's Ultra-Pure Water. The final product is sterile filtered through a 0.2µm filter.

Applications

Kanamycin (also known as kanamycin A) is an aminoglycoside bacteriocidal antibiotic. Kanamycin is used in molecular biology as a selective agent most commonly to isolate bacteria (e.g., *E. coli*) which have taken up genes (e.g., plasmids) coupled to a gene coding for kanamycin resistance (primarily Neomycin phosphotransferase II [NPT II/Neo]). Bacteria that have been transformed with a plasmid containing the kanamycin resistance gene are plated on kanamycin (50-100µg/mL) containing agar plates or are grown in medium containing kanamycin (50-100µg/mL). Only the bacteria that have successfully taken up the kanamycin resistance gene become resistant and will grow under these conditions.

Quality Control*General*

All QBI products are prepared according to the standard published protocols.^{1,2} All products are subjected to a variety of quality control procedures, including pH and conductivity determinations, in order to validate that the product is within its specifications.

Procedures

This product can be added to an agar or culture medium which has been autoclaved and cooled to 45 - 50°C. Culture plates with kanamycin can be stored at 2 - 8 °C for up to two months.

The recommended concentration for use in kanamycin resistance studies is 50 - 100µg/mL.

Related Products**LB Broth (Luria-Bertani)**

Catalog #	340-004-101	500mL
	340-004-101CS	10 x 500mL
	340-004-131	1000mL
	340-004-131CS	10 x 1000mL
	340-004-721	4 x 100mL
	340-004-721EA	100mL

All products sold by Quality Biological, Inc. are intended for research use only. This product has not been approved for diagnostic or IVD use.