

## 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.<sup>1,2</sup> 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.**