
Technical Information Products for Molecular Biology

50mg/ml Kanamycin Ready-Made Solution

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

Store at: -20°C

Shipped at: Dry Ice

Composition: Kanamycin sulfate salt 50g/L in ultra-pure water.

DESCRIPTION

Quality Biological's (QBI) Kanamycin Ready- Made Solution is prepared from USP grade Kanamycin sulfate salt using Quality Biological's ultra-pure Water. The final product is sterile filtered through a 0.2 µm 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., of 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- 100 µg/ml) containing agar plates or are grown in media containing kanamycin (50- 100 µg/ml). Only the bacteria that have successfully taken up the kanamycin resistance gene become resistant and will grow under these conditions.

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

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QUALITY CONTROL

General

All QBI products are prepared according to standard published protocols^{1, 2} or to formulations provided by customers. In addition, all products are subjected to a variety of quality control procedures, including pH and conductivity determinations, in order to validate that the test 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 – 100 µg/ml.

RELATED PRODUCTS

LB Broth (Luria-Bertani)

340-004-101	500ml
340-004-101CS	10x500ml
340-004-131	1000ml
340-004-131CS	10x1000ml

ShakeNGrow LB Broth+100ug/ml Ampicillin

340-337-195	60ml in Shaker Flask
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ShakeNGrow LB Broth+50ug/ml Ampicillin

340-339-195	60ml in Shaker Flask
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ShakeNGrow LB Broth+100ug/ml Carbenicillin

340-338-195	60ml in Shaker Flask
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100mg/ml Ampicillin Ready-Made Solution

351-344-731	10x1ml pack
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