

Kanamycin ELISA Kit

Kanamycin Competitive ELISA Kit

CATALOG #

AAA11447

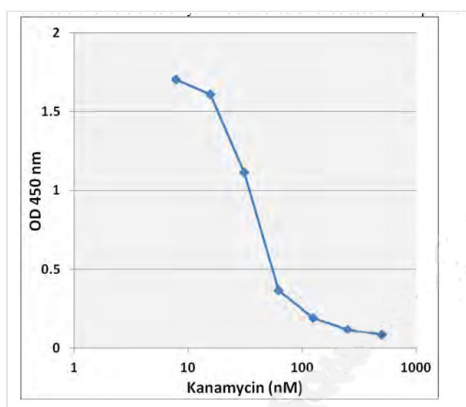
PRODUCT SYNONYMS

Kanamycin; Kanamycin Competitive ELISA Kit; Kanamycin elisa kit

PRODUCT SPECIFICATIONS

Assay Type	Competitive
Preparation and Storage	Upon receipt, store Anti-Kanamycin Antibody (500X), Secondary Antibody HRP Conjugate (1000X), Kanamycin Standard, Kanamycin Conjugate, and 100X Conjugate Diluent at -20 degree C. Store all the remaining components at 4 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Kanamycin elisa kit	Background: Kanamycin (also known as Kanamycin A) is an antibiotic used in the treatment of dangerous bacterial infections such as tuberculosis. It is typically administered by mouth, injection into a vein, or injection into a muscle. Kanamycin is recommended for short-term dosing from 7 to 10 days and is ineffective in viral infections. Common side effects include problems with hearing and balance as well as kidney problems. Kanamycin belongs to the aminoglycoside family of medications and it blocks the production of proteins that are required for bacterial survival. Specifically, it binds to the bacterial ribosomal 30S subunit which results in improper alignment with mRNA and causes the wrong amino acid to be synthesized into the peptide. As a result, nonfunctional peptide chains are produced leading to bacterial death. Kanamycin is commonly used as a selective agent by molecular biologists to grow bacteria (e.g. E. coli) which have taken up expression plasmids (circular DNA) also containing a gene that codes for kanamycin resistance (usually Neomycin phosphotransferase II [NPT II/Neo]). Bacteria that have taken up and express the exogenous kanamycin resistance gene are grown on kanamycin containing luria broth (LB) agar plates or are grown in liquid LB media containing kanamycin. Only the bacteria expressing the kanamycin resistance gene can resist the selection conditions and grow. Kanamycin Competitive ELISA Kit provides a convenient method for the detection of total kanamycin in extracts from cells, tissue, serum, plasma, or foods. The total content of kanamycin in unknown samples is determined by comparison with a kanamycin standard curve. Each kit provides sufficient reagents to perform up to 96 assays, including standard curve and unknown protein samples. The kit has a detection sensitivity limit of 7.8 nM kanamycin. Principle of the Assay: First, a kanamycin conjugate is coated on an ELISA plate. The unknown kanamycin samples or kanamycin standards are then added to the kanamycin conjugate preabsorbed ELISA plate. After a brief incubation, an anti-kanamycin monoclonal antibody is added, followed by an HRP conjugated secondary antibody. The total content of kanamycin in unknown extracted samples is determined by comparison with a kanamycin standard curve.
Product Categories/Family for Kanamycin elisa kit	Metabolism Research; Drug Metabolism

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/elisa-kits/kanamycin/11447>