



## User's Manual

# Amikacin ELISA Kit

**REF** DEIABL-QB22

 96T

**RUO**

This product is for research use only and is not intended for diagnostic use.

For illustrative purposes only. To perform the assay the instructions for use provided with the kit have to be used.

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## PRODUCT INFORMATION

### Intended Use

The Amikacin ELISA Kit is developed for quantitative measurement of Amikacin in chicken/ pork tissue; honey; liquid Milk and vaccine.

### General Description

Amikacin is an aminoglycoside drug widely used in the treatment of animal diseases. Due to its neurotoxicity and renal toxicity, European and American countries and countries require it to be used in limited quantities.

### Principles of Testing

The kit utilizes amikacin antibody and amikacin to produce specific binding properties, first pre-coating the antigen on the microplate, and then adding the standard (sample) and Amikacin antibody working solution, the amikacin drug in the sample or standard competes with the coated antigen for the amikacin antibody, and finally the substrate is added to catalyze the color development. Among them, the depth of color development is inversely proportional to the content of amikacin in the standard (sample).

### Reagents And Materials Provided

1. Microtiter plate with 96 wells coated with coupling antigen
2. Amikacin standard solutions x 6 bottles, 0ng/ml, 1.5ng/ml(ppb), 4.5ng/ml(ppb), 13.5ng/ml(ppb), 40.5ng/ml(ppb), 121.5ng/ml(ppb) (1ml/bottle)
3. Amikacin antibody working solution, 7ml/bottle,
4. Enzyme labeled Ab solution, 7ml/bottle,
5. 20x Concentrated wash solution, 30ml/bottle,
6. 20x Concentrated tissue reconstitution solution, 10ml/bottle,
7. 10x Concentrated honey reconstitution solution, 10ml/bottle,
8. Substrate solution A, 7ml/bottle,
9. Substrate solution B, 7ml/bottle,
10. Stop solution, 7ml/bottle,
11. Datasheet.

### Storage

- (1) The optimal storage temperature of the kit is 2-8°C, do not freeze.
- (2) Unused ELISA strips must be sealed and stored at 2-8°C.

### Typical Standard Curve

1.5 ppb-121.5 ppb

## Detection Limit

Minimum detection limit of sample

Pork, chicken: about 45 ppb

Honey: about 25 ppb

Liquid milk sample method one: about 25 ppb

Liquid milk sample method two: about 50 ppb

Vaccine sample method: about 25 ppb

## Sensitivity

1.5 ppb

## Specificity

Cross-reactions:

Amikacin: 100%

Streptomycin: < 0.1%

Spectinomycin: < 0.1%

Tilmicosin: < 0.1%