

INTENDED USE

The Fluoroquinolones Test Kit is a competitive chromatographic immunoassay for the semi-quantitative detection of the presence of Fluoroquinolones in egg and egg products specimen.

PRINCIPLE

The Fluoroquinolones Test kit is an antibody based immunoassay in dipstick format. A dipstick and a microwell are provided to carry out the assay running. The specific antibodies for Fluoroquinolones are labeled to the test system. The veterinary drugs in milk specimen and the analytes complex pre-coated in the dipstick would competitively bind to the receptors. Result will be determined by comparing the color intensities of the red lines.

STORAGE AND STABILITY

The kit should be stored at 2-8°C. The kit will be valid in 12 months. The test dipsticks and microwells are stable through the expiration date printed on the label. They must remain in the canister until use. Use one dipstick and one microwell for one sample, the rest ones can be stored in the canister for future use. **DO NOT FREEZE.** Do not use the kit beyond the expiration date.

PRECAUTIONS

- For best results, please strictly adhere to these instructions.
- Do not touch the membrane area of the dipsticks.
- Please seal the canister immediately after taking out few required dipsticks and microwells if there are still some unused ones.
- Do not use the test beyond its expiration date marked on the foil pouch.
- The components in this kit have been quality control tested as standard batch unit. Do not mix components from different lot numbers.

MATERIALS**Materials Provided**

- 8 dipsticks and 8 microwells sealed in one canister. 12 canisters each box.
- Assay Buffer 1bottle
- Package insert for use

Materials Required But Not Provided

- Centrifuge

- Vortex
- Water bath
- Pipette and disposable tips
- Timer

SAMPLE PREPARATION

Egg: homogenize the egg specimen with a vortex. Place 1 gram of homogenized specimen in a tube. Then add 10mL of Assay buffer or distilled water into the tube. Shake for 1 min and directly used in the assay.

Egg Powder: Weigh 1g of egg powder into a tube, Then add 10mL of assay buffer or distilled water into the tube. Shake for 1 min and directly used in the assay.

TEST PROCEDURE

Read the product insert carefully before running the assay. Allow the test kit, and specimen to room temperature (20-25°C) prior to testing.

1. Remove the test dipsticks and microwells from the canister and properly mark them. Please use the test strips and microwells as soon as possible within 1 hour. Remain the rest strips and microwells in the canister and seal the cap immediately for future use.
2. Place 100uL of the diluted specimen into a microwell with a pipette. Repeatedly suck and extrude the specimen until all red reagents are completely dissolved. Start the timer.
3. Incubate the mixture for 5 minutes at room temperature (20-25°C). Then insert a dipstick into the microwell with the MAX end and start the timer.
4. Incubate for another 5 minutes. Take out the dipstick and interpret the result according to the color intensities

INTERPRETATION OF RESULTS

There are 2 lines were designed in the dipstick, C line, T line. The test results would be interpreted according to the color intensities of C and T line.

NEGATIVE

Both C and T line are visible, and T line is equal to C line, or deeper color than C line.

POSITIVE

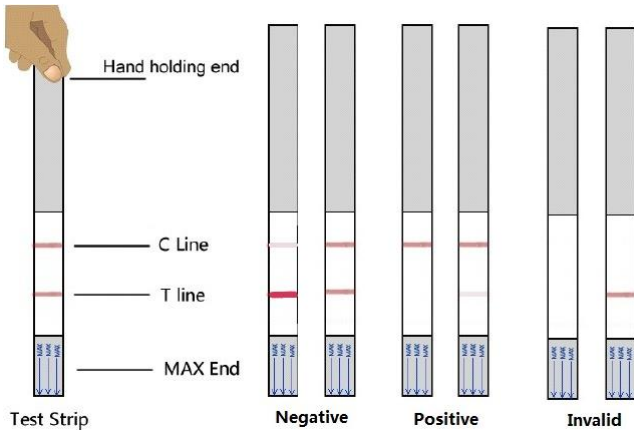
Colored C line is observed, no T line, or T line is weaker than C line.

INVALID

C line fails to appear. Insufficient specimen volume or

incorrect procedural techniques are the most likely reasons for control line failure. Review the procedure and repeat the test with a new test dipstick. If the problem persists, discontinue using the test kit immediately and contact your local distributor.

Fluoroquinolones in egg. If you want a quantitative result, it is suggested to apply other method such as ELISA or HPLC in practice.



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QUALITY CONTROL

Internal procedural controls are included in the test. A colored line appearing in the control region (C) is an internal procedural control. It confirms sufficient specimen volume and correct procedural technique.

Control standards are not supplied with this kit; however, it is recommended that positive and negative controls be tested as a good laboratory practice to confirm the test procedure and to verify proper test performance.

SENSITIVITY

Egg:

Fluoroquinolones Drugs	Detection of Limit (ppb)
Ciprofloxacin	2
Enrofloxacin	10

Egg Powder:

Fluoroquinolones Drugs	Detection of Limit (ppb)
Ciprofloxacin	15
Enrofloxacin	10

SPECIFICITY

The results are negative when the test card is applied to detect 100ppm of Chloramphenicols, Aminoglycosides, Macrolides, Beta-Lactams, and Melamine.

LIMITATIONS

The Fluoroquinolones Test Kit is a useful tool offering a rapid and accurate screening test, especially for in field testing. It provides a semi-quantitative method to detect