

Furaltadone metabolite Rapid Test Kit Art. No.: E1702-16T

Furaltadone is a nitrofurantoin antibiotic that is effective against bacterial infections in animal when added to feed or drinking water.

This product utilizes the high affinity of monoclonal antibody against Furaltadone metabolite, which can easily identify its contamination in milk without any instrument.

1. Application

This kit can be used to qualitative detect Furaltadone metabolite in shrimp

2. Detection Limit (LOD) in Raw milk sample

0.3 ppb

3. Kit components

- Test Strip, 16 pcs in 12 plastic bottles, 8 pcs / bottle.
- Derivative reagent: 75mg(Add 500ul of methanol into the brown vial to dissolve, then transfer the mixture into the bigger empty brown bottle, then add 9.5ml methanol, the concentration of derivative reagent is 50mM.)
- Reconstitution fluid: 10ml
- 1 manual

4. Reagents required but not provided

- 1M HCl
- 1M K₂HPO₄
- 1M NaOH
- Ethyl acetate
- n-Hexane

5. Sample pretreatment

- Remove the skin, take the meat, then treat it by a homogenizer.
- Weight 2.00±0.05 g of the homogenized sample into a 50 ml centrifuge tube, then add 4 ml deionized water, 0.5 ml HCl and 0.2 ml derivative reagent successively, then vortex sample for 3 minutes.
- Incubate the sample at 60 °C for 15 minutes.
- Add 5 ml K₂HPO₄, 0.4 ml NaOH and 6 ml ethyl acetate successively, then vortex for 2 minutes.
- Centrifuge at 4000 rpm for 10 minutes.
- Take 3 ml of the upper yellow solution into a 15 ml centrifuge tube, dry the sample at 60 °C (the dried residue will be light red).
- Dissolve the dried residue in 0.5 ml n-hexane, vortex for 1 minute.
- Then add 0.5 ml reconstitution fluid, vortex for 1 minute and centrifuge at 4000 rpm for 1 minute.
- Take the lower layer solution (around 500 µl) as the sample solution.

6. Operations

- a) Please read the operating instructions carefully before the experiment. Bring the test kit and samples to room temperature.
- b) Remove the reagent bucket from the original packaging, then open it, remove the required number of microwell reagents and test strips, and mark them. Please use it as soon as possible within 60min. Immediately after removing the test reagent, cover the reagent lid.
- c) 200 µl of the sample solution was absorbed then tested into the microwells with a micropipette, slowly aspirate and mix well with the reagents in the microwells.
- d) After incubating for **5 min at room temperature (20-25 °C)**, insert the labeled test strip into the microwell,

allow it to fully immerse into the solution.

- e) After incubating for **5 minutes at room temperature (20-25 °C)** again, the test strip was taken out and judged according to the schematic diagram, and the other conditions was judged to be invalid.

7. Result Determination

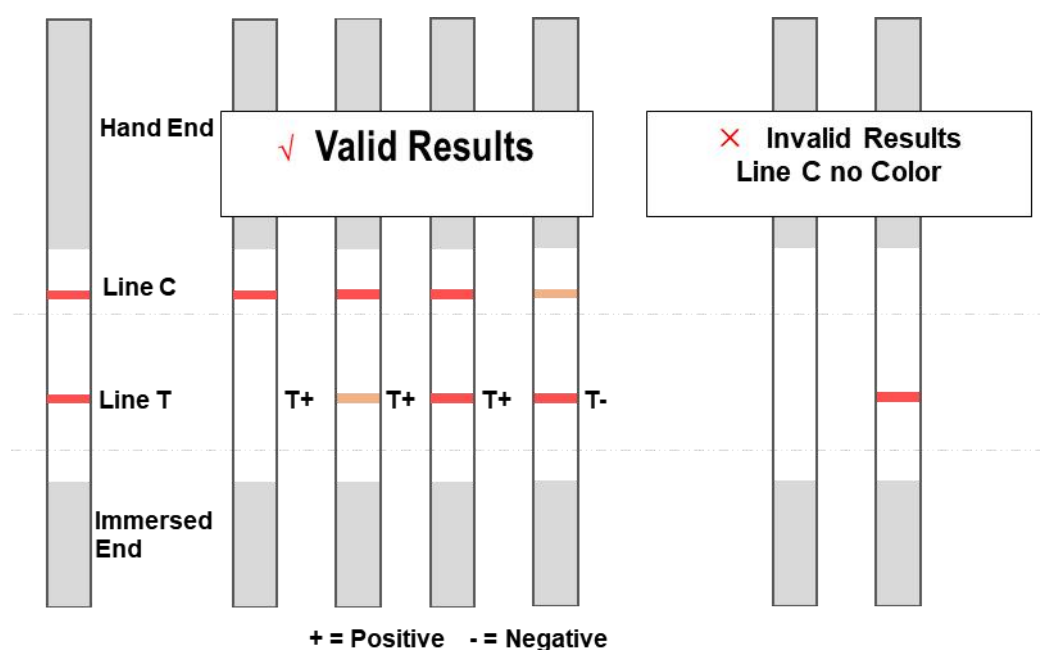
Negative (-): Both the C and T lines are colored, and the T line is stronger than the C line, indicating that the concentration of Furaltadone metabolite in the sample is below the detection limit.

Positive (+): T line color is the same as C line, T line color is weaker than C line or C line is colored and T line is not color, which means that the concentration of Furaltadone metabolite in the sample is equal to or higher than the detection limit.

Invalid: The C line does not appear, indicating that the incorrect operation process or the test strip has deteriorated. In this case, read the instructions carefully and retest with a new test strip.

If the test strip needs to be recorded, please cut off the lower sponge pad immediately after the interpretation and dry it for archiving.

Remarks: In addition to the naked eye interpretation, you can use a special reader to make the result interpretation.



8. Specificity

The results are all negative when test sulfonamides, tetracyclines, aminoglycosides and florfenicol with the concentration of 500 µg/kg.

9. Storage

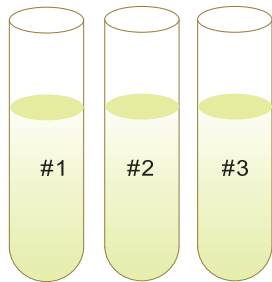
2-8°C in cool dark place, do not freeze. The kit is valid for 12 months. Lot No. and expired date are printed on the package.

10. Notice and Precautions for a successful experiment.

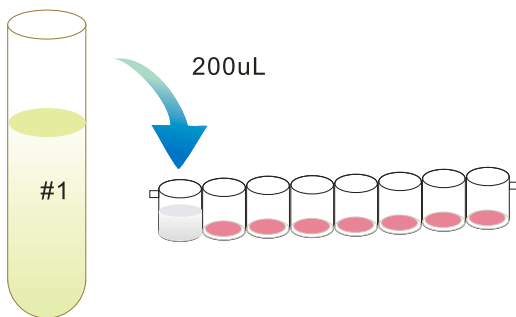
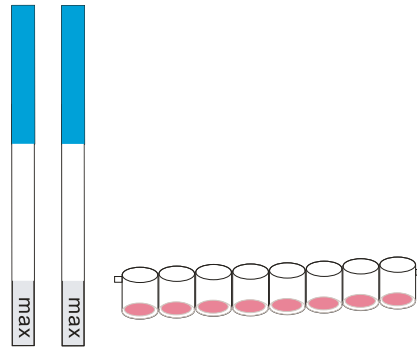
- Please test follow the operation steps. Do not touch the color zone of the strip.
- Immediately after the test reagent is removed, cover the reagent bucket lid. If you can't use 8 microwells at a time, immediately cover the remaining microwells with a microwell lid and put it back in the reagent bucket for sealed storage. When one bucket is used up, open another bucket to protect it from moisture.
- Do not mix test strips and microwell reagents with different batch numbers.
- This test strip is a one-off product and should not be reused.
- The test results of this product are for reference only. If you need to confirm, please refer to the relevant national standard methods.

Schematic Assay Steps

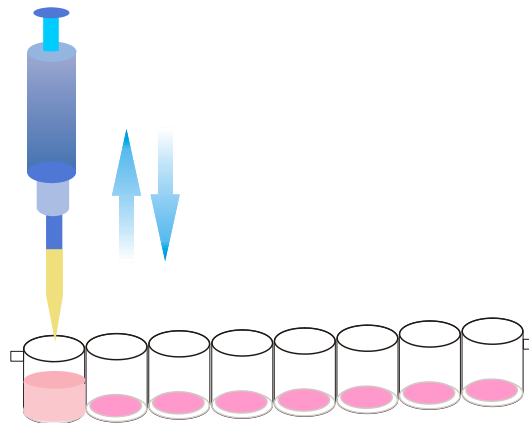
1. Bring all test samples to room temperature; number them to keep record.



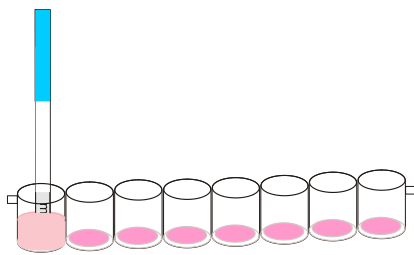
2. Take test kit according to your sample number and also number the kit wells to keep record and consistency.



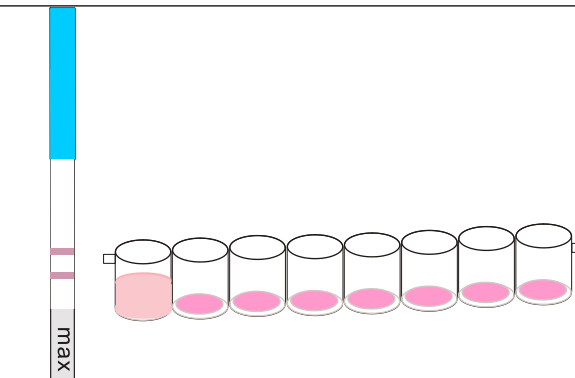
3. Take 200ul sample into the wells using pipet. You can also then put the well into the well holder to avoid sample spill.



4. Absorb up and down for 5 times to mix sample with reagent completely. Start the timer when the mixture is pink. **Incubate for 5 min at room temperature.**



5. Insert the "Immersed" end of the strip into the mixture; **Incubate for 5min at room temperature again.**



6. Take out the strip; judge the result according to **kit instruction.**

Ring Biotechnology Co., Ltd

Add: Building 3, Zhongtongtai TechnoPark, No. 11, Kechuang 14th St, Beijing 100176, CHINA

E-mail: info@ringbio.com Web: www.ringbio.com Tel: +86-10-56267496