

Metronidazole is an antibiotic and antiprotozoal medication. It is used either alone or with other antibiotics to treat pelvic inflammatory disease, endocarditis, and bacterial vaginosis. Metronidazole is available by mouth, as a cream, and by injection into a vein.

This product utilizes the high affinity of monoclonal antibody against metronidazole, which can identify metronidazole in egg easily. The detection limit of the kit can meet both European and USA MRLs when use properly.

## 1. Detection Limit (LOD) in egg sample

Detection Limit: **4 – 5 ppb**

## 2. Kit components

- Test Strip, 96 pcs in 12 plastic bottles, 8 pcs / bottle.
- NBReader (optional)
- Sample buffer 15ml (optional)
- Kit insert
- Dropper, 96pcs

(The proportion of ingredients in egg dilution(200ml): Na<sub>2</sub>HPO<sub>4</sub>·12H<sub>2</sub>O(1.15g); NaH<sub>2</sub>PO<sub>4</sub>·12H<sub>2</sub>O(0.12g); Triton-114(0.1g); Tween-20(0.25g); ProClin300(0.25g); Ultrapure water(200ml))

## 3. Sample pretreatment

(1) The eggs are broken into disposable cup or beaker, and thoroughly stirred with bamboo chopstick or glass rod. Then the egg whites and egg yolks should be thoroughly mixed as a test solution.

(2) The test sample is the mixture of test solution and egg diluent (1:1).

## 4. Operations

- a) Read the instructions before experiment. Bring the test kit and samples to room temperature. Egg samples should be fully liquid without any agglomeration and deposition.
- b) Take bottles needed from the kit package, take out required wells and strips, and make proper marks. Please use the test strips within 1h. Seal the cap of the bottles and store the unneeded kit.
- c) Take 200ul of the egg sample into the microwell, then repeatedly absorb up and down for 5 times to mix the sample with the reagent in the wells completely. The mixture should be pink, and then start the timer.
- d) Incubate for **5min at room temperature (20-25 °C)**, Insert the test strip into the well with the "Immersed" end fully dipped in to the mixed reagent and sample.
- e) Incubate for **5min at room temperature (20-25 °C)** again. Take out the strip; determine the result according to **Part 5**.

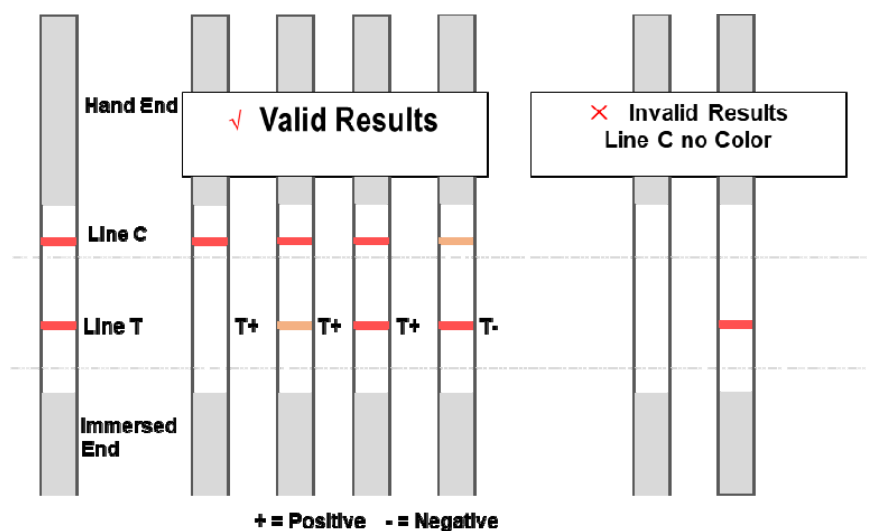
## 5. Result Determination

**Positive (+):** Line C is red, line T has no color or the color is lighter than or the same as Line C. If no line T, the result is also positive.

**Negative (-):** Line T and Line C are both red, and color of Line T is deeper than Line C.

**Invalid (x):** Line C has no color. In this case, please reread the instructions and repeat assay with new strip.

**Notice:** If the result of the strip needs to be recorded, please cut the "Immersed"



end, and dry the strip, then keep it as file or paste in your recording book.

## **6. Specificity**

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

## **7. Storage**

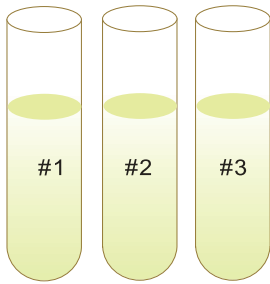
2-8 °C in cool dark place, do not freeze. The kit is valid for 12 months. Lot No. and expired date are printed on the package.

## **8. Notice and Precautions for a successful experiment.**

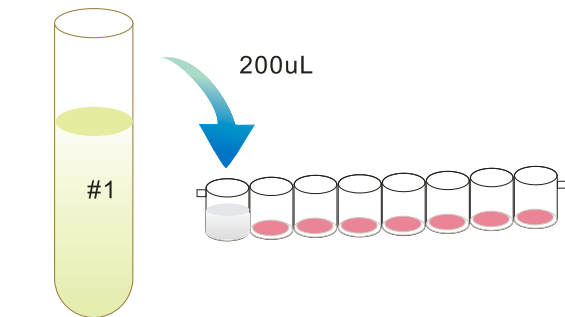
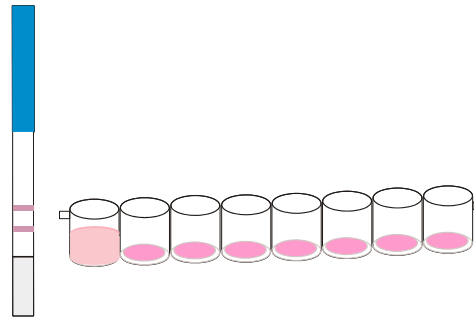
- Perform the assay following the instruction; do not touch the membrane of the strip.
- Seal the bottle after taking out required strips.
- This strip is used **for only once**; please do not use it repeatedly.
- This kit is only for screening test, positive result should be further confirmed with other method.

## Schematic Assay Steps

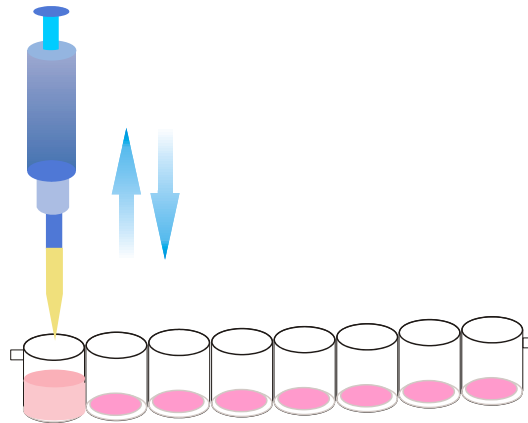
1. Bring all test samples to room temperature; number them to keep record.



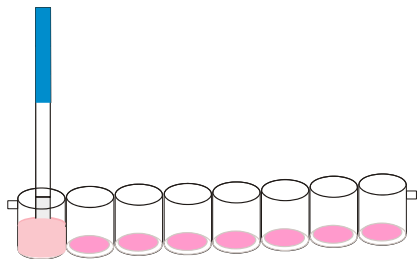
2. Take test kit according to your sample number and also number the kit wells to keep record and consistency.



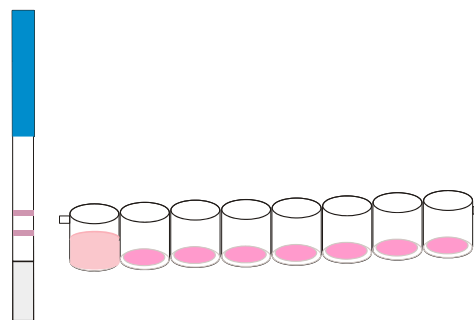
3. Take 200ul sample into the wells using pipet. You can also then put the well into the well holder to avoid sample spill.



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 (20-25 °C).**



5. Insert the "Immersed" end of the strip into the mixture; **Incubate for 5 min at room temperature (20-25 °C) again.**



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

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