Fluoroquinolones Rapid Test Kit

Art. No.: 100309-48T

Fluoroquinolones are broad-spectrum antibiotics that play an important role in treatment of serious bacterial infections, especially hospital-acquired infections and others in which resistance to older antibacterial classes is suspected. Due to the potential hazard to human, strict MRLs have been set in EU, USA and other countries. This product utilizes the high affinity of monoclonal antibody against quinolone common structure, which can identify a broad spectrum of fluoroquinolones. The detection limit of the kit can meet both European and USA MRLs when use properly.

1. Detection Limit (LOD) in honey sample

Fluoroquinolones	LOD(ppb)	Fluoroquinolones	LOD(ppb)
Enrofloxacin	1-1.5	Marbofloxacin	3
Danofloxain	1-1.5	Fleroxacin	2
Difloxacin	2-2.5	Nalidixic acid	3-4
Norfloxacin	1	Oxolinic acid	0.8-1
Enoxacin	2-3	Flumequine	1.5-2
Ofloxacin	2-2.5	Sarafloxacin	2-2.5
Ciprofloxacin	1-1.5	Lomefloxacin	1.5-2
Pefloxacin	1		

2. Kit components

- Test Strip, 48 pcs in 6 plastic bottles, 8 pcs / bottle.
- Concentrated fluoroquinolones buffer (10x), 20ml * 2
- Kit insert
- Reader (optional)

3. Preparation

Preparation of fluoroquinolones buffer

Bring the concentrated fluoroquinolones buffer (10x) to room temperature, make sure the crystals dissolved completely. Then dilute it with deionized water in the rate of **1:9**, store it as the fluoroquinolones buffer at 2-8 ^{o}C.

Sample preparation

Weight **1±0.05 g** of honey, add it into a centrifuge tube, then add **3 ml** of fluoroquinolones buffer, mix it fully.

4. Operations

a) Read the instructions before experiment. Bring the test kit and samples to room temperature. Honey 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 honey 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 **3min at 40 ^{o}C**, and then 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 40 ^{o}C** again. Take out the strip; determine the result according to **Part 5**.

5. Result Determination

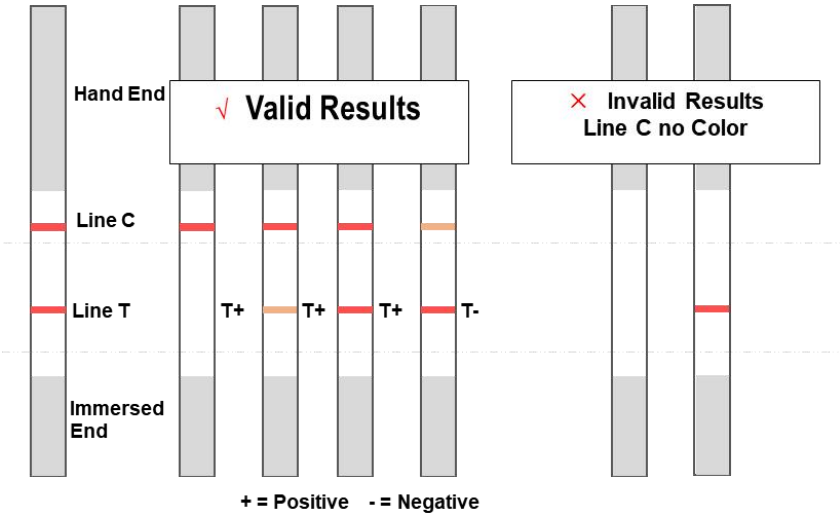
Positive (+): **Line C** is red, line T has no color or the color is lighter than or equal to **Line C.** If no line T, the result is

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 500 μg/kg.

7. Storage

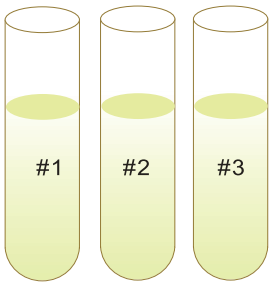
2-8 ºC in cool dark place, do not freeze. The kit is valid for 12 months. Lot No. and expired date are printed on the package.

8. Notice and Precautions for a successful experiment.

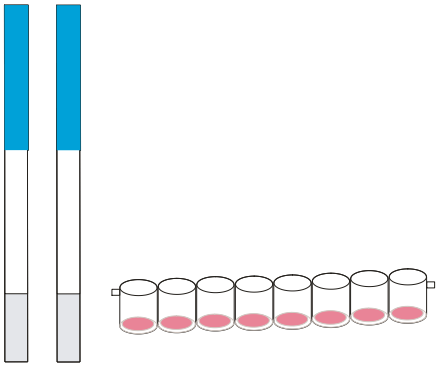
- Perform the assay following the instruction; do not touch the membrane of the strip.
- Seal the bottle after taking out required strips.
- This strip is used **for only once**; please do not use it repeatedly.
- This kit is only for screening test, positive result should be further confirmed with other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

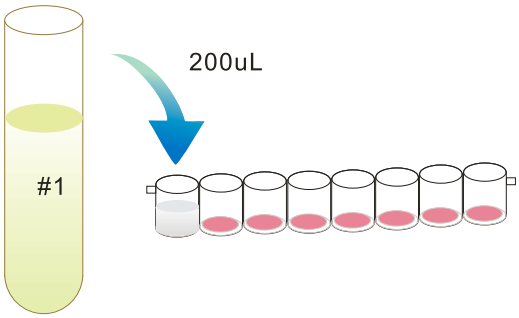
Schematic Assay Steps

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

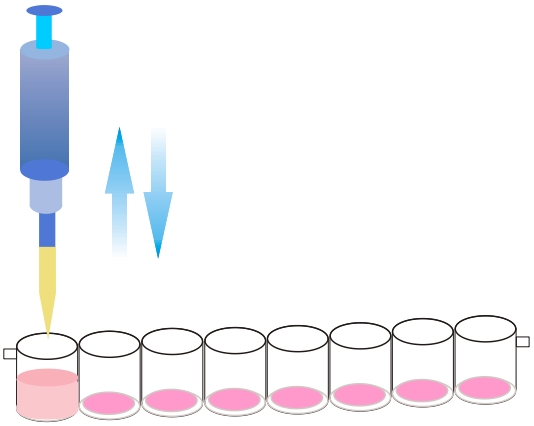


2. Take test kit according to your sample number and also number the kit wells to keep record and consistency.

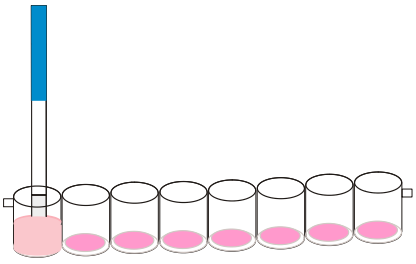




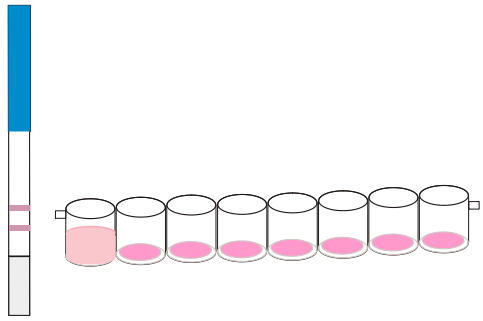
3. Take 200ul sample into the wells using pipet. You can also then put the well into the well holder to avoid sample spill.



4. Absorb up and down for 5 times to mix sample with reagent completely. Start the timer when the mixture is pink. **Incubate for 3 min at 40 ºC.**



5. Insert the "**Immersed**" end of the strip into the mixture; **Incubate for 5min at 40 ºC again.**



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

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