

Quinolone rapid test strip (Tissue)

Catalogue No.: LSY-20047

Product Description

1. Principle

The Quinolone rapid test strip is based on immuno-chromatographic technology, Quinolone in sample in the process of flow combine with the colloidal gold-labeled monoclonal antibody, inhibits the antibody combining with Quinolone - BSA conjugate binding on the NC membrane test line. If the content of Quinolone in the sample is high, T line is lighter than C line or T line is invisible, the result is positive. On the contrary, T line is same as C line or is darker than C line, the result is negative.

Table 1: Detection limit of part of Quinolone drug ($\mu\text{g/l}$)

Name	Detection limit
Enrofloxacin	3 μg /L
Ciprofloxacin	3 μg /L
Danofloxacin	3 μg /L
Norfloxacin	6 μg /L
Oxolinic acid	12 μg /L
Ofloxacin	5 μg /L
Lomefloxacin	12 μg /L
Fleroxacin	12 μg /L
Enoxacin	12 μg /L
Flumequine	5 μg /L
Nalidixic acid	40 μg /L
Gatifloxacin	20 μg /L
Levofloxacin	20 μg /L
Pefloxacin	20 μg /L

2. Components

Name	Quantity	Name	Quantity
Test strip	50 pieces	Hexane	5 bottle
0.2mol (PH=11.4) NaOH	50 bottles	Disposable dropper	50 pieces
CH ₂ Cl ₂	50 bottles	Manual	1 piece
QNS PBST buffer	5 bottle		

3. Sample collecting and preparation

Collect the fish, shrimp and crab etc. into clean container or sealed bag; If can't test on time, the sample should remove fat, use scissors to shred or use mincer to mince, store at below -20°C, avoid repeated freezing and thawing.

3.1 Tissue (fish, chicken, pig)

- (1) Take certain quantity tissue (fish, chicken, pig), remove fat, use scissors to shred or use mincer to mince;
- (2) Take 5g sample into 50ml centrifuge tube;
- (3) Add 10ml 0.2mol (PH=11.4) NaOH (It can use HCl to adjust PH value), shake to mix evenly for 2min;
- (4) Centrifuge at 4000rpm for 10min, take 7ml supernatant into another 50ml centrifuge tube, and add 6ml CH₂Cl₂, mix up-and-down for 10s (Avoid shake violently);
- (5) Centrifuge at 4000rpm for 5 min, take 3ml down-layer solution into 5ml centrifuge tube, blow to dry by nitrogen or air at 60°C;
- (6) Use Micropipettes to add 300ul QNS PBST buffer, then 0.5ml Hexane to redissolve, mix up-and-down for 1 min;
- (7) Centrifuge at 4000rpm for 1 min (If stratification is not clear, extend to 5min) or be static until obvious stratification, take 200ul down-layer solution to test.

3.2 Shrimp, crab

- (1) Take certain quantity aquatic products (shrimp, crab), remove fat, use scissors to shred or use mincer to mince;
- (2) Take 4g sample into 50ml centrifuge tube;
- (3) Add 8ml CH₂Cl₂, shake to even for 2min;
- (4) Centrifuge at 4000rpm for 5 min, take 4ml down-layer solution into 5ml centrifuge tube, blow to dry by nitrogen or air at 60°C;
- (5) Use Micropipettes to add 300ul QNS PBST buffer, then 0.5ml Hexane to redissolve, mix up-and-down for 1 min;
- (6) Centrifuge at 4000rpm for 1 min, take 200ul down-layer solution to test.

4. Operation procedures

- 1) Return test strip and reagents to room temperature before testing;
- 2) Take out the test strip from the original package, use it in half hour;
- 3) Put test card on desk flatly, Absorb 200μL ready-to test solution into gold label well, use small dropper to blow and beat until the red material is completely dissolved, wait to react for 2min,
- 4) Use dropper absorb all sample from the well, add it into sample collecting well (as following picture), timing after adding sample.
- 5) Read the result in 8-10 minutes, it is invalid after 15min.

5. Test Result Interpretation

5.1 Negative(—): T line is darker or same as C line, it means the Quinolone concentration is lower than the detection limit.

5.2 Positive (+): T line is lighter than C line or T line is invisible, it means the Quinolone concentration is higher than the detection limit.

5.3 Invalid: C line is invisible, maybe it is the operation error or test strip is invalid. Read the manuals, use new test strip to test again.

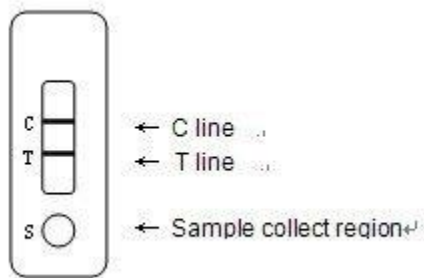
6. Precautions

- 1) Use the test strip at room temperature for once, do not repeat use.
- 2) Do not touch the white membrane surface in the middle of test card, avoid sunshine directly and fan blow directly.
- 3) For positive result, use this test card test again.

7.Storage and expiry date

Storage: Store at 4-30°C in dark, no frozen.

Expiry date: 12 months; date of production is on box.



Specifications

Quinolone rapid test strip

1. Packing: 50 test/kit
2. ISO9001:2008
3. MOQ: 1 kit
4. Easy to operate

India Contact:

Life Technologies (India) Pvt. Ltd.

306, Aggarwal City Mall, Road No. 44, Pitampura, Delhi – 110034, India

Mobile: +91-98105-21400, Tel: +91-11-42208000, 8111, 8222, Fax: +91-11-42208444

Email: customerservice@lifetechindia.com, www.atzlabs.com ; www.lifetechindia.com