VERSION 1.01

QUINOLONE RAPID TEST DIPSTICKS

MANUAL

ELISAKITS.ONLINE

By Immunomart

Quinolone Rapid Test Dipsticks (milk,honey, egg)

Catalogue Number. IP100094

Brief

This product is used for testing Quinolones residue in milk sample(pure milk and fresh milk) and goat's milk qualitatively, the whole test procedure only need 6min, easy to operate with high sensitivity.

Principle

The Quinolones rapid test strip is based on competitive inhibition immuno-chromatographic principle. In the flow process, Quinolones in the sample combined with Quinolones specific colloidal gold-labeled monoclonal antibody, Inhibit the combination between antibody and Quinolones-BSA conjugate on Test line of NC membrane, lead to the color change of Test line. When the sample has no Quinolones residue or concentration lower than detection limit, T line is darker than C line. when the concentration is equal to or higher than detection limit, T line is lighter than C line obviously or T line is invisible or T line has same color with C line. No matter whether there is Quinolones residue in sample, C line will appear, it means the test is valid.

Technical specifications

8 strips/bottle, 12 bottles/kit

Detection limit: milk milk,tissue,egg

Enrofloxacin	1-2	Flumequine	1-2
Ciprofloxacin	1-2	Enoxacin	2-4
Norfloxacin	1-2	Lomefloxacin	2-3
Pefloxaein	1-2	Marbofloxacin	5-6
Sarafloxacin	1-2	Nadifloxacin	5-6
Ofloxacin	1-2	Difloxacin	2-3
Danofloxacin	3-5	Cinoxacin	5-6
		Oxolinic Acid	1-2

Detection limit (honey)

Name	Detection limit (ppb)	Name	Detection limit (ppb)
Enrofloxacin	5-7	Enoxacin	20-25
Ciprofloxacin	5-7	Lomefloxacin	10-15
Norfloxacin	5-7	Marbofloxacin	15-20
Pefloxacin	5-7	Nafloxacin	20
Sarafloxacin	5-7	Difloxacin	5-10

Ofloxacin	5-7	Cinoxacin	25-30
Fluquinoline	10-15		

Components

1	test strip	8strip/bottle
2	Red powder micro-well	8 micro-well/bottle
3	Manual	1 piece
4	Desiccant	2 pieces/bag
5	10X Sample extract solutionA	1bottle
6	Sample extract solutionB	1 bottle

Sample preparation

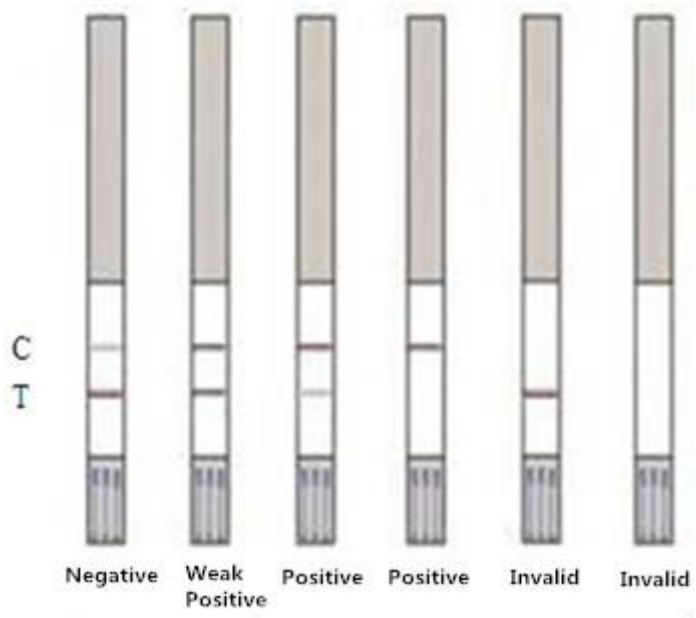
1) Sample extract solution A: Dilute 10X Sample extract solution A with deionized water at 1:9. (1 part 10X Sample extract solution A + 9 parts deionized water)
2) Sample treatment
Fish and Chicken
Take 3±0.05g homogenized tissue sample, add 3ml Sample extract solution A, shake for 3min;then add 300ul Sample extract solution B, shake for 3min; centrifuge at 4000rpm for 10min, take up-layer solution for test.
Shrimp
Take 3±0.05g homogenized tissue sample, add 3ml Sample extract solution A, shake for 3min;then add240ulSample extract solution B, shake for 3min; centrifuge at 4000rpm for 10min, take up-layer solution for test.
Dilute 10XSampleextraction A with deionized water at 10 times before use. (1 part 10X Sampleextraction A + 9 parts deionized water)
Weigh 2±0.05ghoney, add 3ml diluted Sample extraction A, shake for 3min; then add300ulSample extraction B, shake for 1min; add 2ml Sample extraction C,shake for 1min, ready to test.

Operation procedures

1.Read the manual carefully before testing, return test strips and milk sample into room temperature before use.
2.Absorb 200ul milk sample into Micro-well, sucking 5~10 times until sample mix even with reagent in micro-well, observe by eyes no solid.
3.Incubate at 40℃ for first step [Recommended, if no incubator, incubate at room temperature(25℃) is also OK], timing for 5min;
4.Insert the strip into micro-well, put the end with MAX down, incubate at 40℃ for second step[Recommended, if no incubator, incubate at room temperature(25℃) is also OK], timing for 5min
5.Take out the strip from micro-well, judge the result.time.

Result Interpretation

Color depth comparison of T line and C line	Result judgment	Result analysis
T line > C line	Negative	Quinolones residue is lower than detection limit in sample
T line = C line	Weak positive	Quinolones residue is equal to detection limit in sample
T line < C line or T line is invisible	Positive	Quinolone residue is higher than detection limit in sample
C line is invisible	Invalid	The test dipstick is invalid, test again



Precautions

1) This product is suitable for pure milk of cattle and sheep and raw milk.
2) Test dipsticks and micro-wells are disposable,do not use test dipsticks out of date.
3) Please seal the bottle after taking out required test dipsticks. If can not use all 8 microwells at once, cup the rest and put it back to bottle and sealed.
4) Do not touch the white membrane surface in the middle of test dipsticks, avoid sunlight and fan blowing directly.
5) Store milk sample in cold, no more than 3 days.
6) Milk samples should be fully liquid without any agglomeration, sour and precipitation. Stir milk sample to even before test.
7) For milk sample with high fat content, chromatography is slow, recommending extension the second step for another 1 min.
8) Use the test dipsticks testing again for positive results

Specificity

This product has no cross-reaction with Quinolones, Sulfonamides and Tetracyclines etc.

Storage: Store at 2-8 ℃ in dark, sealed, dry place, no frozen.
Expiry date: 12 months; date of production is on box..