

**BETA-LACTAMS, TETRACYCLINES,  
SULFONAMIDES AND QUINOLONES  
COMBO RAPID TEST STRIP  
MANUAL**

## Beta-lactams, Tetracyclines, Sulfonamides and Quinolones Combo Rapid Test Strip

**Catalogue Number. IP100083**

### **Brief**

The Beta-lactams, Tetracyclines, Sulfonamides and Quinolones Combo rapid test strip, based on Colloidal gold immunochromatography assay method, is used for testing Beta-lactams, Tetracyclines, Sulfonamides and Quinolones residues in milk and goat milk quickly..

### **Principle**

The Beta-lactams, Tetracyclines, Sulfonamides and Quinolones Combo rapid test strip is based on competitive inhibition immuno-chromatographic principle. When the antibiotics residue in sample is higher than or equal to the detection limit, it will combine with labeled antibody, then inhibit the combination between colloidal gold antibody coated antigen on T line, making T line lighter than C line or T line invisible or T line has same color with C line. Otherwise, T line is darker than C line. No matter whether there is antibiotics residue in sample, C line is visible.

### **Technical specifications**

*8 strips/bottle, 12 bottles/kit*

*Detection limit :*

-lactams	Detecti on limit (ppb)	Sulfonamides	Detecti on limit (ppb)	Quinolones	Detecti on limit (ppb)	Tetracyclines	Detecti on limit (ppb)
Penicillin G	2~4	Sulfadiazine (SD or SDZ)	3-5	Enrofloxacin	2-3	Tetracycline	5-10
Amoxicillin	2~3	Sulfamerazine (SM1)	3-5	Ciprofloxacin	2-3	Oxytetracycline	5-10
Ampicillin	2~3	Sulfamonomethoxine (SMM)	2-3	Norfloxacin	2-3	Chlortetracycline	5-10
Oxacillin	5~7	Sulfadimethoxypyrimidine	3-5	Pefloxacin	2-3	Doxycycline	8-10
Cloxacillin	4~6	Sulfathiazole(ST)	5-8	Sarafloxacin	2-3		
Piperacillin	6~8	Sulfamethoxy pyridazine (SMP)	8-10	Ofloxacin	2-3		
Nafcillin	15~25	Sulfaquinoxaline(SQX)	25-30	Danofloxacin	2-4		
Dicloxacillin	6~8	Sulfamethoxazole (SMZ)	10-15	Flumequine	2-3		
Cefalotin	30~40	Sulfamethoxydiazine(SMD)	2-3	Lomefloxacin	2-3		
Cefazolin	40~50	Sulfafurazole(SIZ)	30-40	Marbofloxacin	3-5		
Cephalonium	8~10	Sulfamethoxy pyridazine (SMPZ)	20-25	Nadifloxacin	3-5		

Cefacetriple	20~30	Sulfachloropyridazine (SCPA)	10-15	Bifloxacin	3-5		
Cefoperazone	3~5	Sulfapyridine	50-60	Cinoxacin	5-8		
Cephapirin	8~10	Sulfadimoxine (SDM2)	20-30	Oxolinic Acid	2-3		
Ceftiofur	60~100	Sulfacetamide	50-60				

### Components

1	test strip	8strip/bottle
2	Red powder micro-well	8 micro-well/bottle
3	Manual	1 piece
4	Desiccant	2 pieces/bag

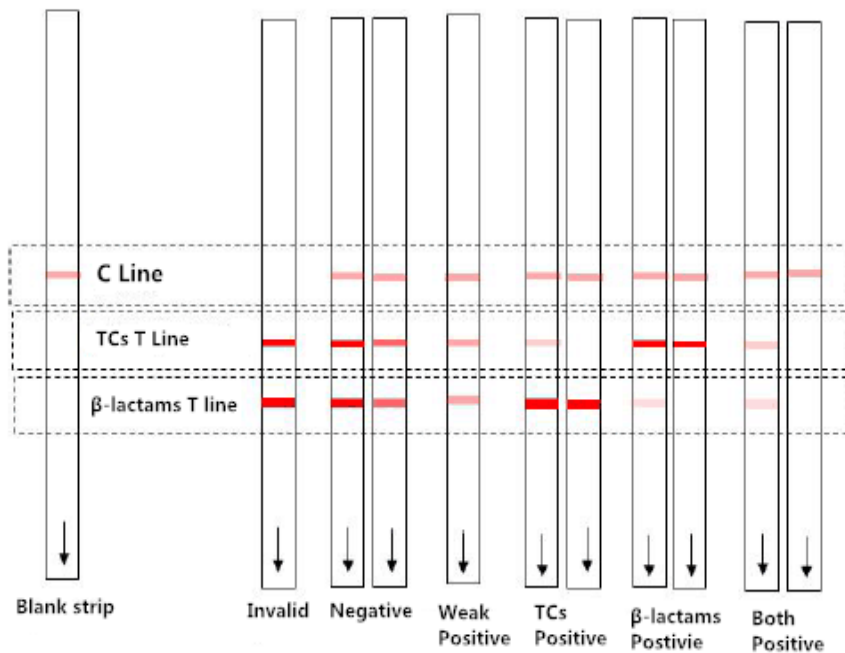
### Operation procedures

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°C for first step [Recommended, if no incubator, incubate at room temperature(25°C) is also OK], timing for 5min;
4. Insert the strip into micro-well, put the end with MAX down, incubate at 40°C for second step[Recommended, if no incubator, incubate at room temperature(25°C) 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	antibiotics residue is lower than detection limit in sample
T line = C line	Weak positive	antibiotics residue is equal to detection limit in sample
T line < C line or T line is invisible	Positive	antibiotics residue is higher than detection limit in sample
C line is invisible	Invalid	The test dipstick is invalid, test again

### Result judgment picture



### 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, Chloramphenicol and Melamine etc

**Storage:** Store at 2-8 °C in dark, sealed, dry place, no frozen.

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