

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

Beta-lactams, Tetracyclines and Sulfonamides Combo Rapid Test Strip

Catalogue Number. IP100082

Brief

The Beta-lactams, Tetracyclines and Sulfonamides combo rapid test strip is based on Colloidal gold immunochromatography, used for testing Beta-lactams, Tetracyclines and Sulfonamides residue in milk(including pure milk and fresh milk) and goat milk qualitatively. The whole test only need 10min, east to operate with high sensitivity.

Principle

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

Technical specifications

8 strips/bottle, 12 bottles/kit

Detection limit :

β -lactams	Detection limit (ppb)	Sulfonamides	Detection limit (ppb)	Tetracyclines	Detection limit (ppb)
Penicillin G	2~4	Sulfadiazine (SD or SDZ)	3-5	Tetracycline	5-10
Amoxicillin	2~3	Sulfamerazine (SM1)	3-5	Oxytetracycline	5-10
Ampicillin	2~3	Sulfamonomethoxine (SMM)	2-3	Chlortetracycline	5-10
Oxacillin	5~7	Sulfadimethoxypyrimidine	3-5	Doxycycline	8-10
Cloxacillin	4~6	Sulfathiazole(ST)	5-8		
Piperacillin	6~8	Sulfamethoxypyridazine (SMP)	8-10		
Nafcillin	15~25	Sulfaquinolaxine(SQX)	25-30		

Cefquinome	8~15	Sulfamethazine(SM2)	5-8		
Cefalotin	30~40	Sulfamethoxydiazine(SMD)	2-3		
Cefazolin	40~50	Sulfafurazole(SIZ)	30-40		
Cephalonium	8~10	Sulfamethoxyypyridazine (SMPZ)	20-25		
Cefacetrile	20~30	Sulfachloropyridazine (SCPA)	10-15		
Cefoperazone	3~5	Sulfapyridine	50-60		
Cephapirin	8~10	Sulfadimoxine (SDM2)	20-30		
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

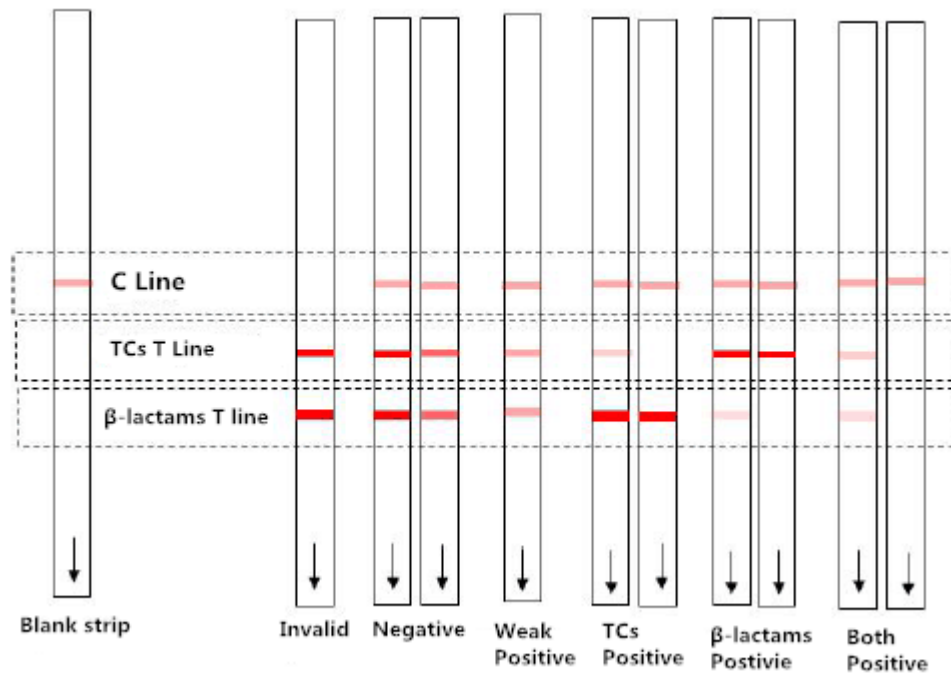
Operation procedures

1. Read the instruction carefully before use. Return test strips and sample into room temperature.
2. Take bottles needed from the kit package, take out required microwells, making proper marks, Please use it in 1 hour. Seal the cap of the bottles, avoid moisture.
3. Use Micro-pipette to take 200ul of the samples into the microwells, then repeatedly absorb for 5 times, mix the sample with the reagent in the microwells completely until no solid judged by eyes (this is a very important step).
4. Incubate at 40±2°C for first step, timing for 5 min.
5. Then insert the strip into micro-well, put the end with MAX down into the liquid. Then incubate at 40±2°C for second step, timing for 5 min,

Test 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



Specificity

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

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.

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

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