

B-LACTAMASE RAPID TEST STRIP
MANUAL

β-lactamase Rapid Test Strip

Catalogue Number. IP100078

Brief

The β-lactamase rapid test strip, based on Colloidal gold immunochromatography assay method, is used for testing β-lactamase residue in milk and goat milk.

Principle

The β-lactamase rapid test dipstick is based on competitive inhibition immunochromatographic principle. When the β-lactamase residue in sample is higher than or equal to the detection limit, it will degrade the standard in white microwells, make labeled antibody combine with coated antigen on T line, making T line is darker than C line or has same color with C line; Otherwise, When the β-lactamase residue in sample is lower than the detection limit, the standard in white microwells will compete combination of labeled antibody. Making T line lighter than C line or T line invisible. Otherwise, . No matter whether there is β-lactamase residue in sample, C line is visible.

Technical specifications

8 strips/bottle, 12 bottles/kit

Detection limit : Penicillin:4ppb,Amoxicillin:3ppb,Ampicillin:3ppb,Oxacillin:7ppb,Cloxacillin:4-6ppb,Piperacillin:6-8ppb,Nafcillin:15-25ppb,Dicloxacillin:6-8ppb,Cefquinome:8-15ppb,Cefalotin:30-40ppb,Cefazolin:40-50ppb,Cephalonium:8-10ppb,Cefacetrile:20-30ppb,Cefoperazone:3-5ppb,Cephaprin:8-10ppb,Ceftiofur:60-100ppb

Components

1	betalactam test strip	8strip/bottle
2	Manual	1 piece
3	Desiccant	2 pieces/bag

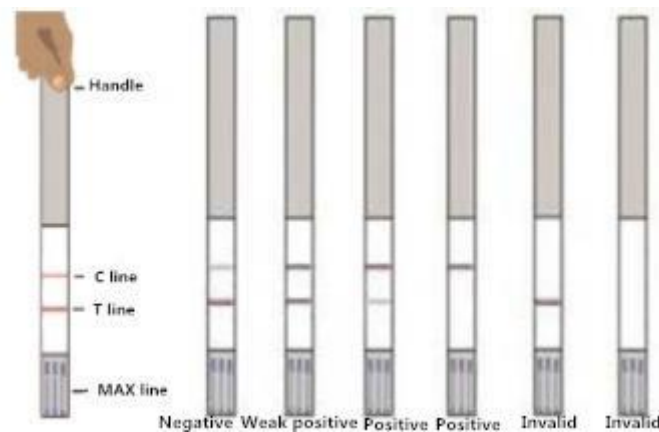
Operation procedures

1. Read the instruction carefully before use. Return test dipsticks and sample into room temperature.
2. Take bottles needed from the kit package, take out required micro-wells and dipsticks, making proper marks. Please use these test dipsticks within 1h. Seal the cap of the bottles, avoid moisture.
3. Take 200ul of the test samples into the micro-wells, then repeatedly absorb for 5 times, mix the sample with the reagent in the micro-wells completely until no solid judged by eyes (this is a very important step).
4. Incubate for 3min at (40±2°C), then insert the test dipsticks into the micro-wells with the "MAX" end fully dipped in to the mixture solution.

5. Insert the test dipsticks into micro-wells for 3min then read the result, it is invalid in other time.

Result Interpretation

Color depth comparison of T line and C line	Result judgment	Result analysis
1 Negative: T line is lighter than C line or T line is invisible, it means the β -lactamase concentration is lower than detection limit or no β -lactamase residue.		
2 Positive: T line is darker or has the same color with C line, the β -lactamase concentration is equal to or higher than detection limit.		
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.		



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 Tetracyclines, 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..