

BETA-LACTAMS RAPID TEST STRIP
MANUAL

Beta-lactams Rapid Test Strip (milk)

Catalogue Number. IP100077

Brief

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

Principle

The β -lactam antibiotics rapid test dipstick is based on competitive inhibition immunochromatographic principle. When the β -lactam 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 β -lactam antibiotics residue in sample, C line is visible

Technical specifications

8 strips/bottle, 12 bottles/kit

Detection limit

β -lactamName	Detection Limit (ppb)	β -lactamName	Detection Limit (ppb)
Penicillin G	2-4	Cefquinome	8-15
Amoxicillin	2-3	Cefalotin	30-40
Ampicillin	2-3	Cefazolin	40-50
Oxacillin	5-7	Cephalonium	8-10
Cloxacillin	4-6	Cefacetrile	20-30
Piperacillin	6-8	Cefoperazone	3-5
Nafcillin	15-25	Cephapirin	8-10
Dicloxacillin	6-8	Ceftiofur	60-100

Components

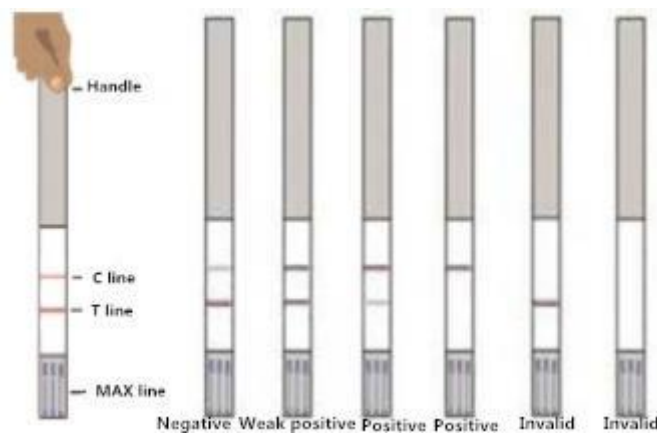
1	betalactam test strip	8strip/bottle
2	Manual	1 piece
3	Desiccant	2 pieces/bag

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 $(40\pm 2^{\circ}\text{C})$, 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

<i>T line > C line</i>	<i>Negative</i>	β -lactam antibiotics residue is lower than detection limit in sample
<i>T line = C line</i>	<i>Weak positive</i>	β -lactam antibiotics residue is equal to detection limit in sample
<i>T line < C line or T line is invisible</i>	<i>Positive</i>	β -lactam antibiotics residue is higher than detection limit in sample
<i>C line is invisible</i>	<i>Invalid</i>	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 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..