

Beta-lactam and Tetracyclines Combo Rapid Test Strip kit

INSTRUCTION MANUAL

FOR PRODUCT No: LT28002AYSLS



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MANUAL VERSION 1.01

INTRODUCTION

The Beta-Lactams and Tetracyclines Combo rapid test strip, based on Colloidal gold immuno-chromatography assay method, is used for testing β -lactam antibiotics and Tetracyclines residue in milk and goat milk quickly.

Detection limit: Milk: **0.3ng/ml (0.3ppb)**

PRINCIPLE

The β -lactam and Tetracyclines 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.

DETECTION LIMIT

Name	Detection Limit (ppb)Name	Detection Limit (ppb)
Penicillin G	2-4	Cefazolin 40-50
Amoxicillin	2-3	Cephalonium 8-10
Ampicillin	2-3	Cefacectile 20-30
Oxacillin	5-7	Cefoperazone 3-5
Cloxacillin	4-6	Cephapirin 8-10

Piperacillin	6-8	Ceftiofur	60-100
Nafcillin	15-25	Tetracycline	10-15
Dicloxacillin	6-8	Oxytetracycline	5-10
Cefquinome	8-15	Chlortetracycline	5-10
Cefalotin	30-40	Doxycycline	15-20

CONTENTS

- 1) 8 microwells and 8 dipsticks in one bottle 12 bottles / kit
- 2) Manual 1 piece

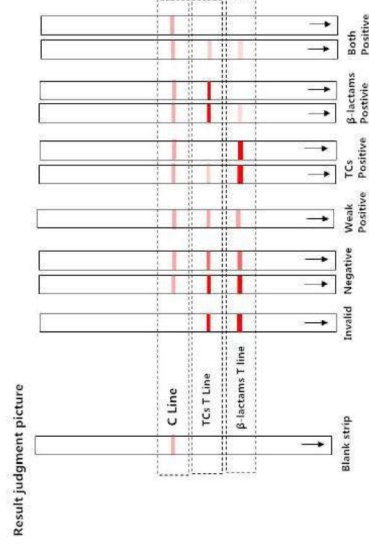
PROTOCOL

- 1) Read the manual carefully before testing, return test strips and milk sample into room temperature before use.
- 2) Absorb 200µl 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], 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], for 5min
- 5) Take out the strip from micro-well, judge the result.

TEST RESULT INTERPRETATION

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



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 cannot 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.

STORAGE AND EXPIRY DATE

Storage: Store at 2-30 °C in dark, sealed, dry place, not to be frozen.

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