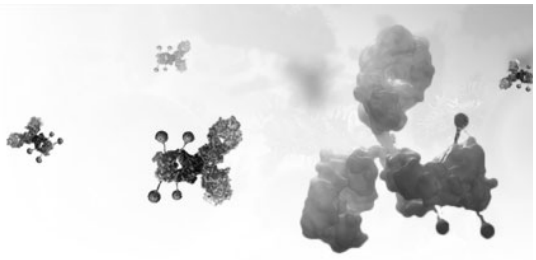

β-Lactams & Tetracyclines Combo Test Kit (DTSXYKB1)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Intended Use

This kit is used for rapid qualitative analysis of β-lactams and tetracyclines in raw milk sample.

Principles of Testing

This kit is based on the specific reaction of antibody-antigen and immunochromatography. β-lactams and tetracyclines antibiotics in the sample compete for the antibody with the antigen coated on the membrane of the test strip. Then after a color reaction, the result can be observed.

Reagents And Materials Provided

1. 8-well strip and 8 test strip in one bottle. 12 bottles / kit.
2. Microwell holder, 1pc
3. Plastic pipette, 96pcs
4. Kit insert

** Use one strip for one sample, the rest strips can be stored in the bottle for future use.

Storage

The kit sshould be stored at 2-8°C in cool dark place, do not freeze. The kit will be valid in 12 months. The lot number and expired date are printed on the package.

Assay Procedure

1. Read the instructions carefully before experiment. Bring the test kit and samples to room temperature. Milk samples

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should be fully liquid without any agglomeration or deposition.

2. Take bottles needed from the kit package and take out required wells and strips, and make proper marks. Please use these test strips within 1h. Seal the cap of the bottles after taking out the strips. The rest strips can be stored for future use.

3. Take 200ul of the test samples into the wells, then repeatedly absorb and drop for 5 times to mix the sample with the reagent in the wells completely. The mixture should be pink, and then start the timer.

4. Incubate for 5min at room temperature (25^{o}C); Insert the test strips into the wells with the "MAX" end fully dipped in to the mixture.

5. Incubate for 5min at room temperature again. Take out the strip; judge the result according to "Interpretation of Results".

Interpretation Of Results

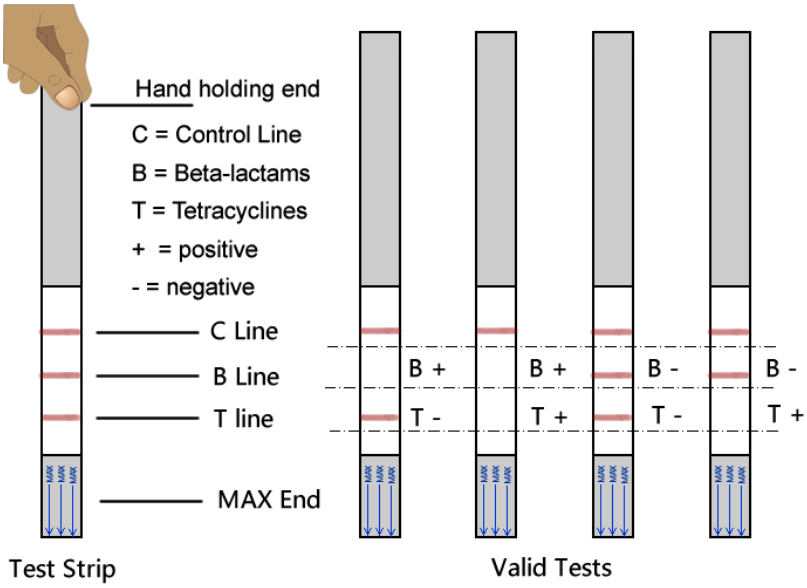
There are 3 lines in the strip, Control line, Beta-lactams Line and Tetracylcines Line, which are briefly used as "C", "B" and "T". The test results will depend on the color of these lines. The following diagram describes the result identification. Negative: Control line, B Line and T Line are all red;

Beta-lactams Positive: Control Line is red, B Line has no color;

Tetracyclines Positive: Control Line is red, T Line has no color;

Beta-lactams and Tetracyclines Positive: Control Line is red; B Line and T Line have no color;

Invalid: There is no line "C". (Line C is colorless), which means the operation is not correct or the reagents have been out of date. In this case, please read through the instruction carefully and do the experiment again with new kits.



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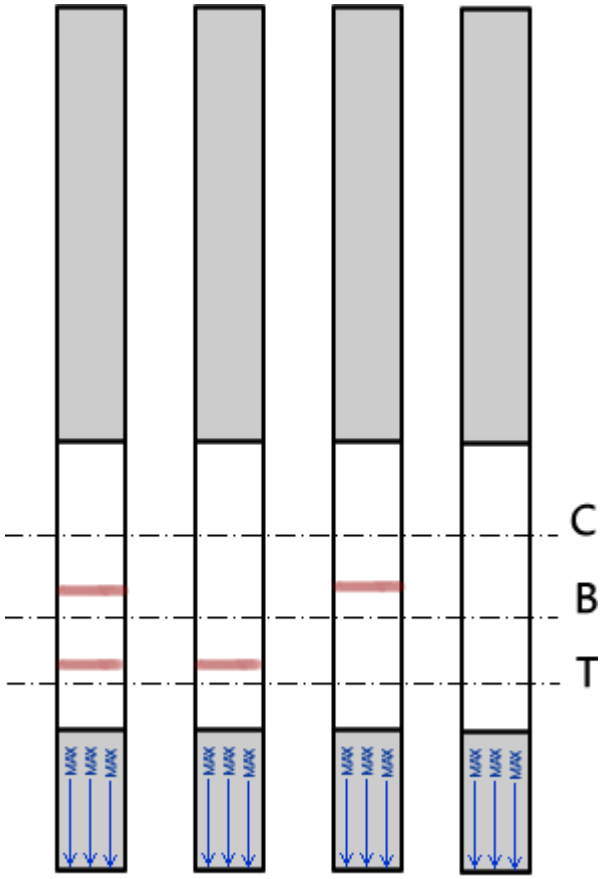

Invalid Tests

Detection Limit

β-lactams	MRL(μg/L)	LOD(μg/L)	Cephalosporins	MRL(μg/L)	LOD(μg/L)
Penicillin G	4	3-4	Cefquinome	20	20
Ampicillin	10	6-8	Cephacetrile	125	40
Amoxicillin	10	6-8	Cefalonium	20	10
Oxacillin	30	8	Ceftriaxone	-	100
Cloxacillin	30	8	Cefoperazone	50	50
Dicloxacillin	30	8	Cephapiriin	60	20
Nafcillin	30	30	Ceftiofur	100	130-140
Tetracyclines	**MRL(μg/L)**	**LOD(μg/L)**	**Tetracyclines**	**MRL(μg/L)**	**LOD(μg/L)**
Tetracycline	100	60	Doxycycline	100	60
Oxytetracycline	100	100	Chlortetracycline	100	60

Specificity

This kit shows negative with 500μg/L level of melamine, sulfonamides, chloramphenicol, aminoglycosides, fluoroquinolones.

Precautions

1. Please test according to the assay steps. Don't touch the color area of the test strips.
2. Please cover the bottle immediately after taking out the test strip. Please immediately cover the unused wells and seal in test bottle. Please open the second bottle after the first one is used up to avoid damp.
3. Don't use strips and reagent of different batch.
4. The test strips are one-off, Please don't use the twice time.

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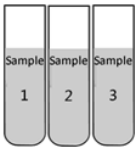
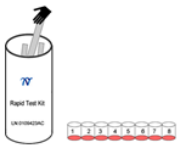
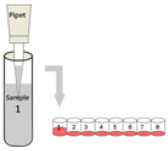
5. The test result is only for reference. Please confirm according to the related method of country.

Assay Steps

<table>
<tr>
<td> 

1. Prepare the test samples. Make proper marks, bring them to room temperature.</td>
<td> 
2. Take out required test wells, make proper marks.</td>
<td> 

3. Take 200ul test sample into the wells</td>
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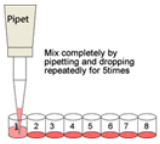
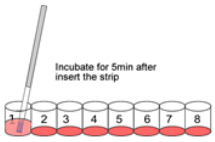
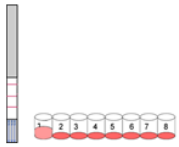
<td> 

4. Mix the sample and reagent in the well completely by pipetting and dropping repeatedly for 5 times. Start the timer when the mixture is pink. Incubate for 5min at room temperature.</td>
<td> 

5. Insert the test strips into the wells with the "**Sample Pad**" fully dipped in to the mixture. Incubate for 5min at room temperature again.</td>
<td> 
6. Take out the strip; judge the result according to **Part 6.**</td>
</tr>
</table>

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