

# **Technical Information**

## Description

Rapid inhibition test for the detection of β-lactam antibiotics and tetracyclines in raw or pasteurised cow, sheep or goat milk, or mixed milk (tank milk).

Temperature range of the milk: between 4°C and 37°C.

## Mode of operation

EcoTest easy MRL is based on the specific antigen-antibody reaction and immunochromatography.

The above-mentioned antibiotics in the sample lead to a concentration-dependent colour reaction on the test strip.

## Packet contents and commercial sizes

Individual packet containing 8 test strips and 8 sample containers

Bulk pack with 12 individual packets (= 96 tests) per pack Instructions for use

## Optional accessories

Pipettes, pipette tips, timer, sample rack

## Storage

Store the product in its original packaging at 2 to 8 °C, do not freeze.

An interruption of the cooling cycle of up to 20 days for transport or delivery will not cause a problem.

## Shelf life

12 months from the production date under correct storage conditions.

## **Cross-reactions**

EcoTest easy MRL shows no cross-reactions with clenbuterol, ractopamine, salbutamol, melamine, trenbolone, sulphonamides, chloramphenicol, macrolides and other active ingredients.

### **Detection limits**

MRL (Maximum Residual Limit = maximal allowed residual amount according to EU specifications) DL (Detection Limit)

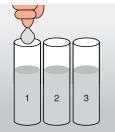
List of antibiotics		
β-lactams	MRL (µg/l)	DL (µg/l)
Penicillin G	4	2-4
Ampicillin	4	3-4
Amoxicillin	4	3-4
Oxacillin	30	3-4
Cloxacillin	30	3-4
Dicloxacillin	30	6-8
Nafcillin	30	20-30
Cefquinom	20	15-20
Cefacetril	125	50
Cefalonium	20	6-8
Cefazolin	50	50
Cefoperazone	50	5
Cephapirin	60	8-10
Ceftiofur	100	50-70
Tetracyclines		
Tetracycline	100	25
Oxytetracycline	100	35
Doxycycline	100	20
Chlortetracycline	100	15

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## Instructions for the Rapid Inhibition Test





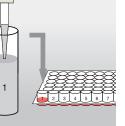
### Sample preparation

• The milk samples to be tested should be free of flocs or cream

 Label the samples to prevent confusion.

• The test works with raw or pasteurised cow, sheep, doat or mixed milk.

• The milk can be tested either cooled or at room temperature.

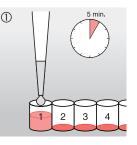


### **Test preparation**

 Take the required number of sample containers from the packet and remove the cap. If you do not need all 8 containers, the extra ones can be snapped off.

 Label the sample containers to prevent confusion.

• To ensure the samples stand firmly, place the sample containers in the sample rack.



### Running the test

### Picture ①

 Set the pipette tip on the EcoTest pipette, push the plunger down 1 press mark and dip it into the milk sample.

• Draw up the milk sample (200 µl) by slowly releasing the plunger.

• Empty the sample into the sample container by pressing the plunger down to the 2nd press mark.

 Remove the pipette from the sample and let go of the plunger.

• Stir the milk sample with the pipette tip until the test disc has dissolved and the milk in the sample container has an homogeneous pink colour.

2 3 4

• Wait for 5 minutes and add the test strip. Picture (2)

• Dip the test strip into the sample container with the arrow downwards until they touch the base of the container.

• Wait 5 to 6 minutes.

### Picture ③

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 To evaluate the results, compare the lines shown on the test strips with the

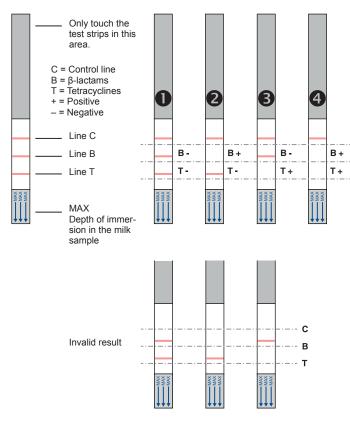
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 It is not relevant for the test results, if the line colours are weak or strong.

• If you want to keep the test record, please cut off the max end using scissors, and store the test strip in a dry dark place.



## Evaluation of the test

- · Evaluate the test within 5 to 6 minutes of inserting the test strip.
- The control line C must appear in every case, otherwise the test is invalid.
- Test result negative: Lines B and C are same or darker than control line C.

Picture 1 no antibiotics from the list overleaf detected Test result positive: Line B or T is absent or clearly lighter than control line C.

- Picture **Θ** β-lactams detected
- Picture 
  tetracyclines detected
- Picture <sup>(4)</sup> β-lactams and tetracylines detected
- If positive detection is suspected, then wait another 10 minutes or repeat the test to be certain.

### Important notes

- · Do not use test strips and sample containers from different packets.
- · Do not use the test after the best before date.
- · Do not touch the test area of the test strip.
- · Keep the packets firmly closed during storage.
- Only use the test strips and sample containers once.
- Store unused test strips and sample containers in the closed packet, in cool, dry conditions and protect from light.

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graphic below "Evaluate the test"