

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)

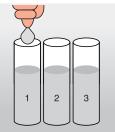
List of antibiotics		
β-lactams	MRL (µg/l)	DL (µg/l)
Penicillin G	4	2-4
Ampicillin	4	3-4
Amoxicillin	4	3-4
Oxacillin	30	3-4
Cloxacillin	30	3-4
Dicloxacillin	30	6-8
Nafcillin	30	20-30
Cefquinom	20	15-20
Cefacetril	125	50
Cefalonium	20	6-8
Cefazolin	50	50
Cefoperazone	50	5
Cephapirin	60	8-10
Ceftiofur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

Headquarter, Sales DE/AT: Österreichische Laberzeugung Hundsbichler GmbH • Sportplatzweg 5 • A-6336 Langkampfen • Austria Tel. +43 (0)5372/622560 • www.ecotest-easy.com



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Instructions for the Rapid Inhibition Test





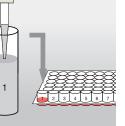
Sample preparation

• 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.

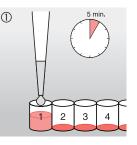


Test preparation

 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

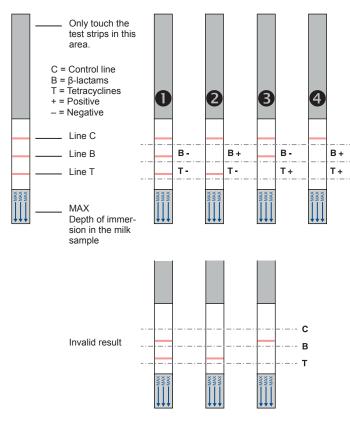
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 It is not relevant for the test results, if the line colours are weak or strong.

• 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 ⁽⁴⁾ 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"