Product Description

1. Brief
This product is used for testing β-lactamase residue in raw milk. Sensitivity is as following Table 1, suitable for all kinds of enterprises and Inspection agency.

<table>
<thead>
<tr>
<th>Incubation Time</th>
<th>Test Sensitivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>30min</td>
<td>3U</td>
</tr>
<tr>
<td>20min</td>
<td>5U</td>
</tr>
<tr>
<td>10min</td>
<td>10U</td>
</tr>
<tr>
<td>6min</td>
<td>20U</td>
</tr>
</tbody>
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2. Components
1) β-lactamase colloidal gold rapid test strip (Including tablet, reagents board, dropper, desiccant) (50 pieces/kit)
2) Manuals (1 piece/kit)
3) 5 ml graduated tube (50 pieces/kit)
4) Dilution solution (5 tubes/kit)

3. Sample preparation
1). Open water bath, adjust to 37°C, begin the experiment when the water temperature reaching 37°C;
2). Take test tube rack into water bath, make water surface a little lower than the top of test tube rack;
3). Unseal the package of β-lactamase test strip, take out the small sealed bag, take the tablet into the 5 ml graduated tube;
4). Use pipette to take 1ml dilution solution and 0.25ml raw milk (or use the dropper drop 7 drops of raw milk) into the 5ml graduated tube within tablet, use dropper to mix fully of milk and dilution solution for 10s; (Before incubation, make sure tablet is fully immersion into milk)
5). Put the above 5ml graduated tube into test tube rack, incubation; (milk surface must lower than water surface)
6). Choose incubation time as above Table 1.
7). After incubation, use dropper to mix sample evenly for 10s, then take 6 drops of milk sample to test.

4. Operation procedures
1) Read the Manuals, return the reagents to room temperature (20°C~30°C) before testing.
2) Take out the test strip, put it on desk flatly, as the following picture on right (Use it immediately after opening the package.)
3) Use dropper absorb milk sample, vertically add 6 drops (about 200μL) into sample collecting well, timing after adding sample.
4) Read the result in 3-5 minutes, otherwise it is invalid.
5. Test Result Interpretation
5.1 Negative (—): T line is invisible, it means the \( \beta \)-lactamase concentration is lower than detection limit or no \( \beta \)-lactamase residue.
5.2 Positive (+): T line appears, it means the \( \beta \)-lactamase concentration is higher than detection limit.
5.3 Invalid: C line is invisible, maybe it is the operation error or test strip is invalid. Read the manuals, use new test strip to test again.

6. Precautions
1) Problems may happen if test extrusion raw milk immediately, better put aside for 2 hours before testing.
2) Do not touch the white membrane surface in the middle of test card.
3) Do not use test card out of expiry date.
4) Do not repeat use the dropper.
5) Do not eat any of the reagents.
6) Be careful of self-protection for people allergic to penicillin.
7) Do not touch tablet by hand directly.

7. Specificity
This product has no cross-reaction with protein, lipids, vitamins and other nutrients in raw milk.

8. Precision
Use this product and \( \beta \)-lactamase ELISA test kit at the same time to test 663 samples including 233 negative sample and 430 positive sample, the results show that the coincidence rate is 99% between this product and \( \beta \)-lactamase ELISA test kit.

9. Storage and expiry date
Storage: Store at 4-30\( ^\circ \)C in dark, no frozen.
Expiry date: 12 months; date of production is on box.

Specifications
Beta-lactamase rapid test kit
1. Packing: 50strips/kit
2. MOQ: 1kit
4. Easy to operate

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