Cattle Brucellosis Antibodies Rapid Test Kit
Catalog No: E-AD-C031
40T

This manual must be read attentively and completely before using this product.

If you have any problems, please contact our Technical Service Center for help.

Phone: 240-252-7368(USA) 240-252-7376(USA)
Email: techsupport@elabscience.com
Website: www.elabscience.com

Please kindly provide us the lot number (on the outside of the box) of the kit for more efficient service.
Test principle
This kit applies the principle of Gold Immunochromatography assay (GICA). The sample will move together with the colloidal gold marker along the chromatography membrane. If Brucellosis antibody exist in the samples, it will combine with the colloidal gold marker and the antigen in the detection line, then it will show a purple color. Otherwise, it will not show the color reaction.

Kit components

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Detect card (with a straw)</td>
<td>40</td>
</tr>
<tr>
<td>Sample diluent</td>
<td>1 vial</td>
</tr>
<tr>
<td>Manual</td>
<td>1 copy</td>
</tr>
<tr>
<td>Straw</td>
<td>20 vials</td>
</tr>
</tbody>
</table>

Sample preparation
1. **Serum:** Take 2~3 mL of blood to a clean and dry test tube, allow samples to clot for 1 hour at room temperature, then centrifuge the sample at 4000 rpm for 10 min (or you can have the blood clot for about 2 hours and the serum will separate out naturally after the blood coagulate) to separate the serum. The serum must be clear, no hemolysis and no pollution. Serum samples can be stored at in 2~8°C in 1 week and -20°C for a long term storage.
2. **Whole blood:** Whole blood with anticoagulant can be used as the test sample (whole blood sample cannot be frozen).
3. **Milk sample:** Collect fresh milk sample for detection.
4. This kit is only for serum/whole blood/ milk samples of cattle.

Assay procedure
1. Take the sample with the straw, add 1 drop of serum sample or 2 drops of whole blood sample or 1 drop of milk sample to the sample diluent and mix fully for detection vertically and slowly (avoid foaming).
2. Take out the detect card and put it on a clean table. Add 2~3 drops (about 60 μL) of the mixture in Step 1 to the sample well.
3. Keep the detect card stand at room temperature for 10~15 min, judge the result.
**Judgment of result**

1. **Negative:** Only the control line region (C) shows a purple line in the observation well.
2. **Positive:** Both the test line region (T) and the control line region (C) show a purple line in the observation well. The higher the titer of Brucellosis antibody is, the deeper the color of the test line region (T) will be.
3. **Invalid:** No purple line shows in the observation well of the control line region (C).

![Image showing negative, positive, and invalid results]

**Interpretation of the results**

1. The negative result reveals that there is no Brucellosis antibody in the sample.
2. The positive result reveals that there is Brucellosis antibody in the sample.

**Limitations**

This kit can only be used for qualitative detection of Brucellosis antibodies. A rough estimate (high, general, low) of the antibody concentration can be calculated according to the color shade of the detection line.
Notes
1. Please read the manual carefully before use. All kinds of reagents provided in this kit are only for this experiment.
2. Do not use deionized water, tap water, saline solution, serum of other animals and other liquid as the negative control.
3. Do not use product out of date or in a broken aluminum foil.
4. The detect card should be brought to room temperature before opening after take it out from the refrigerator. The opening detect card should be used as soon as possible.
5. The tested sample should be fresh and clear. Avoid of using samples of turbidity, polluted, high hemolysis or abnormal viscous.
6. Avoid of touching the chromatography membrane of the sample well and test well.
7. The waste of experiment should be considered as contaminant, and must be properly handled according to the local regulations.

Storage and valid period
Storage: Store at 2-30℃ with dry condition.
Valid Period: 2 years, production date is on the packing box.