Porcine Reproductive and Respiratory Syndrome Virus Antibodies Lateral Flow Assay kit

Catalog No: E-AD-C009
50T

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)    Fax: 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 Colloidal Gold Immunochromatography assay. The sample will move together with the colloidal gold marker along the chromatography membrane. If Porcine Reproductive and Respiratory Syndrome Virus (PRRSV) 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>
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<tbody>
<tr>
<td>Detection card (with a pipette)</td>
<td>50T</td>
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<tr>
<td>Antibody titer color card</td>
<td>1</td>
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<tr>
<td>Manual</td>
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Sample preparation
1. **Serum/plasma**: 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/plasma will separate out naturally after the blood coagulate) to separate the serum/plasma. The serum/plasma must be clear, no hemolysis and no pollution. Serum/plasma samples can be stored at in 2~8°C in 1 week and -20°C for a long term storage.
2. Bring all reagents to room temperature (18~25°C) for 30 min before use.

Assay procedure
1. Take out the detection card and put it on a clean table.
2. Take the sample with the pipette, add 2~3 drops (about 60 μL) of sample supernatant to the sample well vertically and slowly ((Avoid foaming).
3. Incubate for 10 to 20 minutes and then judge the results immediately.
**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 PRRSV 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).

![Negative, Positive, Invalid results](image)

**Interpretation of the results**

1. If this tested porcine has not been immunized with PRRSV vaccine:
   
   (1) The negative result reveals that there is no PRRSV antibody in the tested sample. If the swinery are healthy, then they should be immunized with PPRSV vaccine in time. If there is a corresponding acute symptom, then PRRSV infection cannot be excluded.
   
   (2) The positive result reveals that this porcine might be infected with PRRSV, and the result should be combined with other methods to analyze.

2. If this tested porcine has been immunized with PRRSV vaccine:
   
   (1) If the color of the test line (T) \( \geq 20\sim40 \) titer of the color card, which indicates that the level of antibody is up to the protective level of it.
   
   (2) If the color of the test line (T) \( < 20\sim40 \) titer of the color card, which indicates that the level of antibody is not enough to reach to the protective level of it, a second time of vaccination is suggested.

**Limitations**

This kit can only be used for qualitative detection of PRRSV antibodies in porcine. 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 water, PBS or serum of other animals or other ‘not required by sample’ liquid as the negative control.
3. Do not use product out of date or in a broken aluminum foil.
4. The detection card should be brought to room temperature before opening after take it out from the refrigerator. The opening detection 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.
8. If the samples are not indicated in the manual, a preliminary experiment to determine the validity of the kit is necessary.

Storage and valid period
Storage: Store at 2-30°C with cool and dry environment.
Valid Period: 2 years, expiration date is on the packing box.