

## **Avian Influenza Virus H5 Antibodies Lateral Flow Assay kit**

**Catalog No:** E-AD-C021

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.

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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 Competitive Colloidal Gold Immunochromatography assay (Competitive -GICA). The sample will move together with the colloidal gold marker along the chromatography membrane. If Avian Influenza Virus H5 (AIV-H5) antibody exist in the samples, it will combine with the colloidal gold marker to combine with the AIV-H5 antigen, then the detection line will not appear a purple color. Otherwise, it will not show the color reaction.

## Kit components

Item	Specification
Detection card(with a straw)	50T
Buffer	1 vial
Manual	1 copy

## 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 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 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.

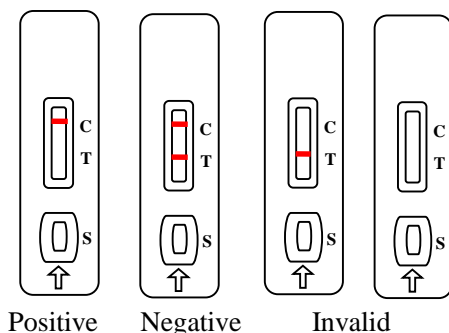
## Assay procedure

1. Take out the detection card and put it on a clean table.
2. Take the sample with the straw, add 1drop (about 25 µL) of sample to the sample well vertically and slowly (make sure that there is no liquid outflowing from the well).
3. Add 2 drops (about 60 µL) of buffer solution to the sample well after 10 min.
4. Keep the detection card stand at room temperature for 10~15 min, judge the result. The result is invalid if the time is above 30 min.

**Note:** Excessive sample or buffer will lead to wrong results.

### Judgment of result

1. **Positive:** Only the control line region (C) shows a purple line in the observation well.
2. **Negative:** Both the test line region (T) and the control line region (C) show a purple line in the observation well.
3. **Invalid:** no purple line shows in the observation well of the control line region (C).



### Interpretation of the results

1. The negative result reveals that the level of AIV-H5 antibody in the sample is  $<$  HI titer 1:16.
2. The positive result reveals that the level of AIV-H5 antibody in the sample is  $\geq$  HI titer 1:32.  
The test threshold of this kit is HI titer 1:32. By means of multiple ratio dilution of tested sample to seek out its maximum dilution with a positive result, then we can calculate the level of antibody in the sample.
3. For the samples immunized with AIV-H5 vaccine, the level of antibody reflects the immune effect. For the samples that are not immunized with AIV-H5 vaccine, the positive result suggests that it might be infected with AIV-H5, and the result should be combined with clinical and other methods to analyze.

### Limitations

This kit is used for detection of AIV-H5 antibody in poultry only.

## **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.

## **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.