

Avian Influenza Virus Antibodies Lateral Flow Assay Kit

Catalog No: E-AD-C017

40T

Version Number:	V1.2
Replace version:	V1.1
Revision Date:	2024.03.14

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.

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017

Email: techsupport@elabscience.com

Website: www.vetassay-elab.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 Immunochromatography assay. The sample will move together with the AIV antigen and colloidal gold marker along the chromatography membrane. If Newcastle Disease Virus (AIV) antibody exist in the samples, it will compete for antigen with the colloidal gold marker, so the detection line will not appear a color. Otherwise, it will show the color reaction.

Kit components

Item	Specification
Detection Card (with disposable dropper)	40T
Buffer Solution	2 vials
Manual	1 copy

Note: All reagent bottle caps must be tightened to prevent evaporation and microbial pollution.

Notes

1. FOR RESEARCH USE ONLY. Please read the manual carefully before use, changes of operation may result in unreliable results.
2. Do not use product out of date or in a broken aluminum foil, it is disposable and cannot be used repeatedly.
3. 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.
4. Please do not use but not limited to the following liquids for negative control: water, PBS.
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. Each reagent is optimized for use in the E-AD-C017. Do not substitute reagents from any other manufacturer into the test kit. Do not combine reagents from other E-AD-C017 with different lot numbers.

Storage and expiry date

Storage: Store at 2-30°C. With cool and dry environment, avoid freeze.

Expiry date: expiration date is on the packing box.

Sample preparation

1. **Serum:** Use the conventional method to prepare serum, the serum must be clear, no hemolysis and no pollution. Samples can be conserved at 2-8°C in 1 week, and it should be stored at -20°C for a long term storage.

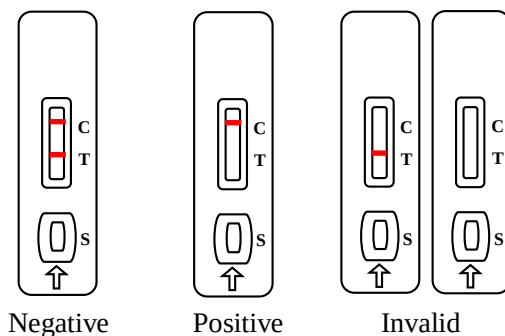
Assay procedure

Allow all kit components and sample to reach room temperature prior to testing.

1. Tear the aluminum foil bag of the detection card and take out the detection card, and put it on a smooth, clean table.
2. Take the sample with the disposable dropper, add 1 drop (about 25 µL) of **serum** supernatant to the sample well (S) vertically and slowly (Avoid foaming).
3. Add 2 drops (about 60 µL) of **Buffer Solution** to the sample well (S) after 10 min.
4. Incubate for 10 to 15 minutes and then judge the results immediately.

Judgment of result

1. **Negative:** Both the test line region (T) and the control line region (C) show a line in the observation well.
2. **Positive:** Only the control line region (C) shows a line in the observation well.
3. **Invalid:** No 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 antibody in the sample is $<$ HI titer 1:16.
2. The positive result reveals that the level of AIV antibody in the sample is $\geq$ HI titer 1:32.
3. For the samples immunized with AIV vaccine, the level of antibody reflects the immune effect. For the samples that are not immunized with AIV vaccine, the positive result suggests that it might be infected with AIV, and the result should be combined with other methods to analyze.

Limitations

1. This kit can only be used for qualitative detection of AIV antibodies in poultry.
2. The detection results of this kit are only for reference. For confirmation of the result, please combine the symptoms and other methods of detection, this detection cannot be used as the only criteria for result.