

**Avian Influenza Virus Antigen Lateral Flow Assay Kit**

**Catalog No:** E-AD-C002

40T

**Version Number:** V1.3  
**Replace version:** V1.2  
**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.

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Email: [techsupport@elabscience.com](mailto:techsupport@elabscience.com)

Website: [www.vetassay-elab.com](http://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 uses the principle of Immunochromatography assay for the qualitative detection of avian influenza type A virus antigen in poultry cloaca, trachea sample. The sample will move together with the colloidal gold marker along the chromatography membrane. If Avian Influenza Virus (AIV) antigen exist in the samples, it will combine with the colloidal gold marker to make the detection line appear a purple color. Otherwise, it will not show the color reaction.

## Kit components

Item	Specification
Detection Card (with disposable dropper )	40T
Sample Diluent	40 vials
Cotton Swab	1 package
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 Do not use product out of date or in a broken aluminum foil, it is disposable and cannot be used repeatedly.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-C002. Do not substitute reagents from any other manufacturer into the test kit. Do not combine reagents from other E-AD-C002 with different lot numbers.

## Storage and expiry date

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

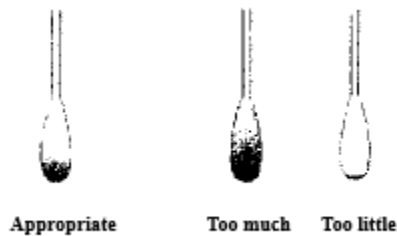
**Expiry date:** expiration date is on the packing box.

### Sample preparation

1. Weigh about 0.1 g or 100  $\mu$ L of poultry excrement or laryngotracheal secretion with a cotton swab (sample collection affects the detection result, ensure it accurately and adequately).
2. Immediately, insert the cotton swab into a sample tube containing the **Sample Diluent**, stir the swab until the sample is dissolved into the diluent fully. Discard the cotton swab after wiping it against the wall of the tube.
3. Make sample solution stand for 1-2 min before use.

**Note:** Excessive excrement sample may lead to wrong results (e.g. black band, etc.).

### Reference:



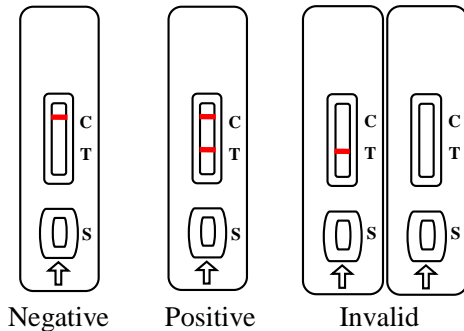
### Assay procedure

*Allow all kit components and sample to reach room temperature (25°C) 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 supernatant with the disposable dropper, add 3 drops (about 60  $\mu$ L) of sample supernatant to the sample well (S) vertically and slowly (Avoid foaming).
3. Incubate for 10 to 15 minutes and then judge the results immediately.

### Judgment of result

1. **Negative:** Only the control line region (C) shows a line in the observation well.
2. **Positive:** Both the test line region (T) and the control line region (C) show 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 there is no AIV antigen in the sample. If there is a corresponding acute symptom, then AIV infection cannot be excluded.
2. The positive result reveals that there is AIV antigen in the sample. It might be infected with AIV, and the result should be combined with clinical and other methods to analyze.

### Limitations

1. This kit can be used for detection of AIV antigen in Poultry only, cannot be used for subtype analysis.
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.