

## Instructions for Use

Version: 1.0.1

Revision date: 23-Feb-23

### Avian Influenza H5 Virus Antibody Rapid Test Kit

**Catalog No.:** abx092031

**Size:** 40 tests

**Storage:** Store all reagents at 2-30 °C. Keep dry.

**Application:** For qualitative detection in serum and plasma.

#### Introduction and assay principle

Abbexa's Avian Influenza H5 Virus (AIV) Antibody Rapid Test Kit is based on the gold immunochromatography assay (GICA) principle. Any AIV Antibody present in the samples competes with the colloidal gold particle-marker for the Avian Influenza H5 Virus antigen. When the concentration of AIV Antibody in the sample is more than the detection limit, there is a no color change in the detection line and the result is positive. When the concentration of AIV Antibody in the sample solution is less than the detection limit, there is a color change in the detection line and the result is negative.

#### Kit Components

- Test cassettes with a pipette: 40
- Sample diluent: 1 vial

#### Material Required But Not Provided

- Timer

#### Sample preparation

- **Serum and plasma samples:** Collect samples using conventional methods and stored between 2-8 °C for short-term storage (up to 1 week) or -20 °C for long-term storage. Fresh samples are recommended. Avoid repeated freeze/thaw cycles, bacterial pollution, visible particles; and avoid cloudy, hemolytic, or viscous samples.

#### Assay procedure

1. Take a test cassette and lay it flat on a clean table. Using the provided pipette, slowly and vertically add 1 drop (approximately 25 µl) of sample to the sample well on the test cassette. Avoid foaming. Start the timer.
2. After 10 minutes, add 2 drops of the sample diluent to the sample well on the test cassette. Start the timer again.
3. Leave at room temperature for another 10-15 min, then analyze the result.

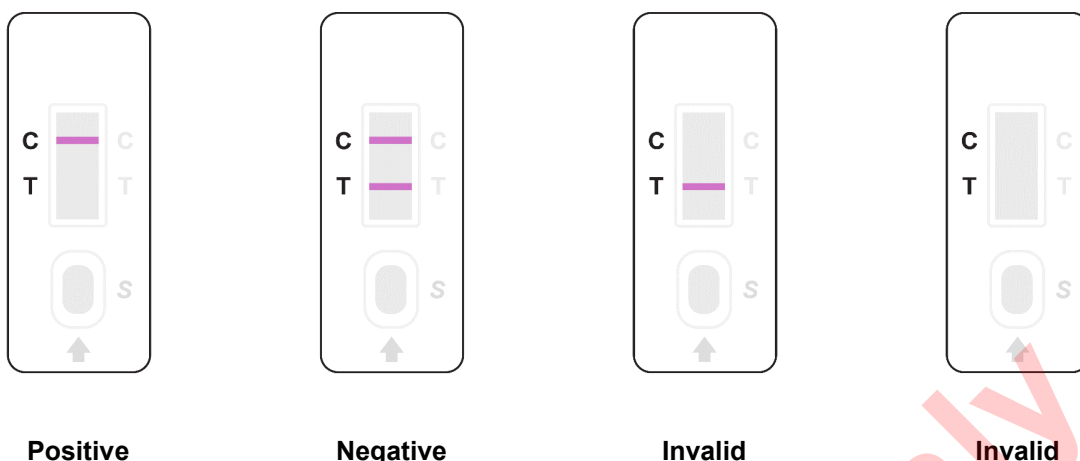
#### Results analysis

- **Positive result:** A colored line is observed in the control (C) section but not the test (T) section.
- **Negative result:** A colored line is observed in both the control (C) section and the test (T) section.
- **Invalid result:** No colored line is observed in the control (C) section.

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### If the animal has not been immunized with an Avian Influenza H5 Virus vaccine:

- A negative result indicates that there are no AIV antibodies present in the sample. If the animal is exhibiting acute symptoms, AIV infection cannot be excluded.
- A positive result indicates that the animal may be infected with AIV. It is recommended to use another detection method to confirm and analyze the result.

### If the animal has been immunized with an Avian Influenza H5 Virus vaccine:

- A negative result indicates that there are no AIV antibodies present in the sample.
- A positive result indicates that the animal shows immunity, or may be infected with AIV. If the animal is exhibiting acute symptoms, AIV infection cannot be excluded.

## Notes

1. The test cassettes should be brought to room temperature before use.
2. After opening the aluminum foil, use the test cassette as soon as possible.
3. Samples should be clear with no visible particles, turbidity or bacterial pollution.
4. Do not mix or re-use the disposable pipettes to avoid cross-contamination.
5. Do not use water, PBS, or similar solutions as the negative control.
6. Avoid touching the cassette membrane through the sample well or test result window.
7. This kit is for qualitative detection of AIV in Poultry Serum and Plasma samples. For other sample types, a preliminary experiment is recommended to determine compatibility with this kit. Positive samples can be tested with another method (e.g. HPLC, LC/MS) for quantitative results.
8. This kit is for research use only and the results are for reference only. It is recommended to use this kit in conjunction with another detection method.
9. All waste should be disposed appropriately. Please note that you may need to follow special waste disposal procedures for infectious samples. Please check local disposal regulations.