

**Instructions for Use**

Version: 1.0.1  
Revision date: 12-May-23

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**Avian Influenza H9 Virus Antibody Rapid Test Kit**

**Catalog No.:** abx092030

**Size:** 40 tests

**Storage:** Store all reagents at 2 - 30°C for up to 12 months. Keep dry. Avoid freezing.

**Application:** For the qualitative detection of Avian Influenza H9 Virus Antibody in avian serum samples.

**Introduction and assay principle**

Abbexa's Avian Influenza H9 Virus Antibody Rapid Test Kit is based on the gold immuno-chromatography assay (GICA) principle. Any Avian Influenza H9 Virus Antibody present in the samples combines with colloidal gold particle-labelled Avian Influenza H9 Virus antigen, preventing these particles from interacting with the detection line. When the concentration of Avian Influenza H9 Virus Antibody in the sample is more than the detection limit, no color change is observed in the detection line and the result is positive. When the concentration of Avian Influenza H9 Virus Antibody in the sample solution is less than the detection limit, a color change is observed in the detection line and the result is negative.

**Kit Components**

- Test cassettes with pipettes: 40
- Buffer Solution: 1 vial

**Material Required But Not Provided**

- Timer

**Sample preparation**

- **Serum:** Collect and prepare the serum samples using conventional methods. Samples should be kept at 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.

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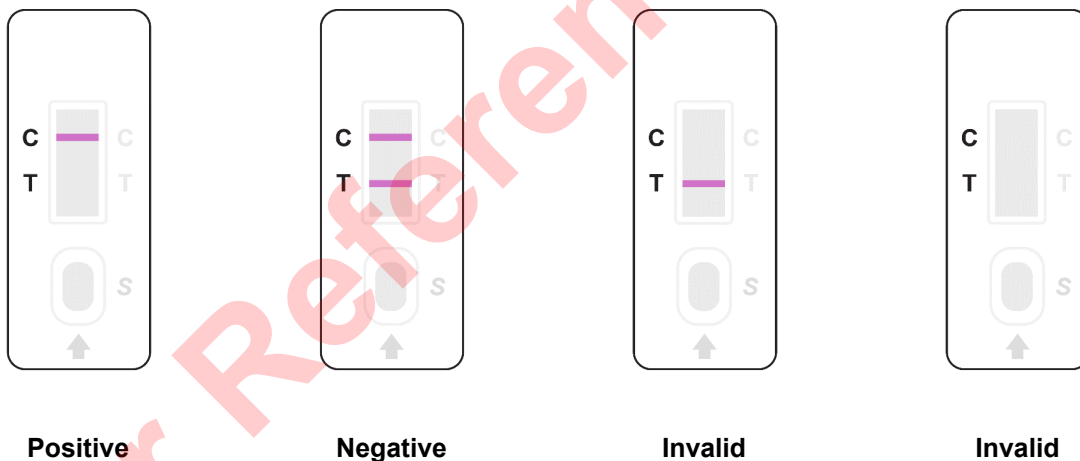
### Assay procedure

Bring all components to room temperature before use.

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  $\mu$ l) of serum to the sample well on the test cassette. Avoid foaming.
2. Allow the sample to stand in the sample well for 10 minutes.
3. Using a fresh pipette or drop bottle, slowly and vertically add 2 drops of Buffer Solution to the sample well on the test cassette. Avoid foaming.
4. Leave at room temperature for 10-15 minutes, 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.



- A negative result indicates that the amount of AIV-H9 antibody present in the sample is  $< 1:16$  hemagglutinin inhibition assay titer.
- A positive result indicates that the amount of AIV-H9 antibody present in the sample is  $\geq 1:32$  hemagglutinin inhibition assay titer. In unimmunized animals, this result may indicate that the animal is infected with AIV-H9. It is recommended to use another detection method to confirm and analyze the result.
- In immunized animals, the amount of antibody reflects the strength of the immune response to the vaccine.

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**Notes**

1. The test cassettes should be brought to room temperature before use. Do not freeze.
2. Adding excessive sample or Buffer Solution to the test well can lead to inaccurate results. Avoid adding large drops of solution to the test cassettes.
3. After opening the aluminum foil, use the test cassette as soon as possible.
4. Samples should be clear with no visible particles, turbidity or bacterial pollution.
5. Do not mix or re-use the disposable pipettes to avoid cross-contamination.
6. Do not use water, PBS, or similar solutions as the negative control.
7. Avoid touching the cassette membrane through the sample well or test result window.
8. This kit is for qualitative detection of Avian Influenza H9 Virus Antibody in avian serum samples. For other sample types, a preliminary experiment is recommended to determine compatibility with this kit. Positive samples should be tested with another method (e.g. HPLC, LC/MS) for quantitative results.
9. 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.
10. 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.

For Reference Only