



**Life Technologies**<sup>TM</sup>  
Your Molecular & Cell Technology Partner

**LT49002AYSL**

# AVIAN INFLUENZA VIRUS ANTIBODY RAPID TEST CARD

**Research Use Only**

**For *in vitro* applications - not for consumption**

**1800-120-2434**

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**VERSION 1.2B**

# 1.INTENDED USE AND PRINCIPLE

Avian influenza is caused by Orthomyxoviridae type A family specific virus. Influenza A viruses can be divided into a number of different subtypes based on hemagglutinin and neuraminidase antigenic differences.

The AIV Ab test is based on competitive method to detect AIV Ab in serum of poultry qualitatively, there is good sensitivity for different subtypes of AIV antibody. There is pre-coated antigen on test strip, AIV antibody in serum sample react with pre-coated antigen, inhibiting the reaction on T line, making the T line to not appear red colored. Otherwise, it appears red colored.

## 2.KIT CONTENTS

AIV Ab test card [40 pieces]

Dropper [40 pieces]

AIV Ab Sample dilution [1 bottle]

Manual [1 piece]

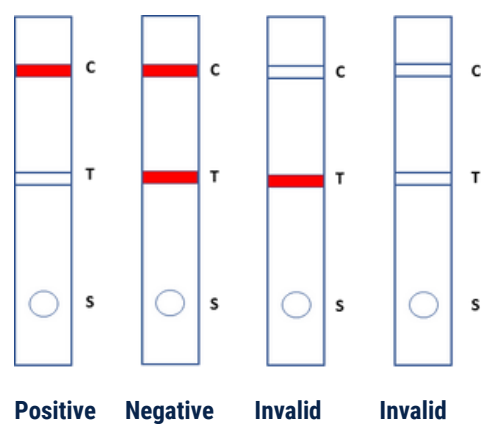
Specifications: 40 tests/kit

Storage and Expiry: 4-25°C in dark, sealed, dry place. No freezing. The shelf life is 24 months.

## 3. PROCEDURE

- 1) Collect 0.5-1ml blood, centrifuge at 3000r/min for 3-5min to separate the serum. Keep the blood sample at 4°C overnight to separate the serum naturally.
- 2) Take out the test card (bring to room temperature firstly if stored in cold), put it on a flat desk.
- 3) Take 30ul serum (recommended), or use a dropper to pour 1 drop of serum vertically and slowly to the sample hole with "S" mark.
- 4) Wait for 10 minutes.
- 5) Then take 2 drops of AIV Ab Sample dilution in the sample hole with "S" mark.
- 6) There will be flow of wine-red liquid. Wait for 10-15 minutes, then note the result. The test is invalid after 15 minutes.

## 4. RESULT INTERPRETATION



**Positive (+):** : only control line is seen wine red, it means the antibody level is equal to or higher than HI 1:32;

**Negative (-):** control line and test line are both seen wine red, it means the antibody level is lower than HI 1:16;

**Invalid:** control line isn't seen wine red.

## 5.NOTE

- 1) Do not use product with broken Aluminum foil bag package. Use test card in 1 hour after taking it out.
- 2) If the collected serum sample can not be tested immediately, store at 4°C for 48 hours, store at -20°C for long term storage.
- 3) The serum sample must be clear, if there is any visible particle, centrifuge at 3000 r/min for 20 min.
- 4) Adding too much of sample will lead to faulty result. Similarly, adding too much of sample dilution will also lead to false result.
- 5) The validation of test has no relation with intensity of C line. As long as C line is clear to see, the test is valid.
- 6) The antigen on test card do not have potential danger, but all serum sample should be handled properly.
- 7) Do not use test card out of expiry date.

## 6.FREQUENTLY ASKED QUESTIONS

### 1.Can we use this product to quantify the antibody titer?

The detection limit of this product is HI 1:32. Therefore, by multiple proportion dilution of the tested serum, find out the maximum dilution factor when it is positive, then calculate to get antibody titer.

For example, dilute the ready to test serum sample with Saline in 1:2, 1:4, 1:8 dilutions separately, then test the 3 diluted serum separately. If 1:2, 1:4 is Positive, while 1:8 is Negative, then the maximum dilution factor when it is positive is 1:4 and the antibody titer of this sample is  $2^7(1:128) = [2^5(1:32) * 2^2(1:4)]$ .

## 7.TROUBLESHOOTING

We understand research is challenging as it is but it can get very frustrating when experiments themselves don't go as they should. That is the precise reason why we strive to ensure that all our products work for the application shown in their respective data sheets.

Still if you have any concerns please feel free to write to us at [customerservice@lifetechindia.com](mailto:customerservice@lifetechindia.com)



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