

**AVIAN INFLUENZA VIRUS H9 ANTIBODY  
RAPID TEST CARD  
MANUAL**

## Avian Influenza Virus (AIV) H9 Antibody Rapid Test Card

**Catalogue Number. IP100141**

### **Technical Specifications**

Specifications: 40 tests/kit

### **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 strip is based on competitive method to detect AIV Ab in serum of poultry qualitatively, there is good sensitivity for different subtype AIV antibody. There is pre-coated antigen on test strip, AIV antibody in serum sample react with pre-coated antigen, inhibit the reaction on T line, make the T line do not appear red color. Otherwise, it appear red color.

### **Components**

1	AIV Ab test card	40 pieces
2	Dropper	40 pieces
3	Sample dilution	1 bottle
4	Disposable gloves	1 bag
5	Manual	1 piece

### **Test Procedures**

1. Collect 0.5-1ml blood, centrifuge at 3000r/min for 3-5min to separate serum. Or be static at 4°C overnight, separate the serum naturally.
2. Take out the test card( return to room temperature firstly if store in cold), put it on desk flatly.
3. Take 30ul serum(recommend), or use dropper provided drop 1 drop of serum vertically and slowly to the sample hole with “S” mark.
4. Wait for 10min.
5. Then use the bottle with Sample dilution drop 2 drops to the sample hole with “S” mark.
6. There will be wine-red liquid flow the observation, wait 10-15min, the result is invalid after 15min.

### **Test Result Interpretation**

- 1. Negative:** control line and test line are both seen wine red, it means the antibody level lower than HI 1:16;
- 2. Positive:** only control line is seen wine red, it means the antibody level equal to or higher than HI 1:32;
- 3. Invalidation:** control line isn't seen wine red.

### **Note**

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

### **Frequently Asked Questions**

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

**Storage:** Store at 2-30 °C.

**Expiry date:** 24 months; date of production is on box.