

Avian Influenza A NP Rapid Test Kit

AIV Ag Test

Product Number: T21195

Product Unit: 25T

For research purpose, for Flu A antigen detection
FOR Professional and Laboratory use only

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Manufacturer Information

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1. Precaution

- a) This kit is designed for NP antigen detection in tracheal secretions, make sure you are fully aware of the intended use.
- b) Check the kit package carefully and read this instruction through to confirm the validity of the kit, and the appearance of the package. Only valid kit can be used.
- c) If any damage or leakage were found, please contact your vendor for replacement. Do not use in test unless otherwise agreed by the vendor.
- d) All sample collected may be contagious, please handle carefully according to local laws and regulations. Used test kit and tested sample shall be handle carefully to avoid further contamination.
- e) The test cassette, the buffer and swab shall be used within 5min after opening the foil package. Do not open it without planned experiment.
- f) Do not use component from other sources, otherwise the result is not valid.
- g) The kit is designed for one single use, do not use repeatedly.

2. Principle

The kit is based on sandwich immunochromatographic assay, to detect influenza A NP antigen in tracheal secretion, which is rapid, accurate and easy-to-operate.

3. Application

This kit is designed to detect NP antigen in tracheal secretion. Other applications may be provided upon request.

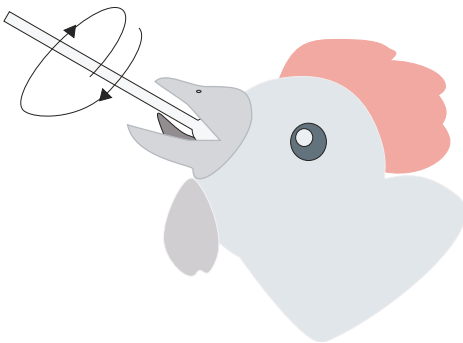
4. Detection Limit

Detection limit of the kit is $5 \times 10^2 \text{TCID}_{50}$

5. Kit Components

- a) Test Cassette, 25 pcs
- b) Sample buffer, 25 pcs
- c) Disposable swab, 25 pcs
- d) Disposable pipette, 25 pcs
- e) Disposable PE gloves, 3 pairs
- f) Kit instruction

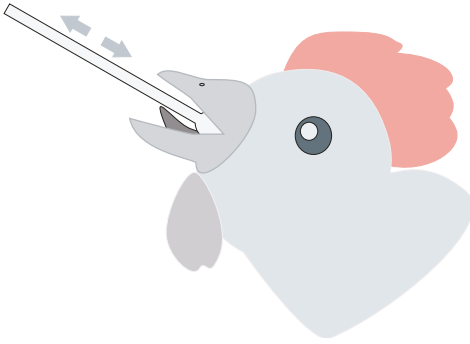
6. Sample Collection and Pretreatment



Insert the swab into trachea of the animal, approx. 2-5cm into trachea.

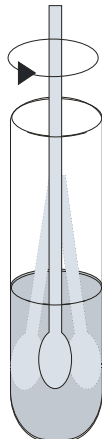
Stir the swab against trachea wall for 5 circles clockwise.

Note: wear necessary protection while sampling, for example, gloves, special protective suit, etc.



Smear again up and down.

Take the swab out and see little blood on it.



Insert the prepared swab into the sample buffer tube from the kit

Repeatedly squeeze the swab against the wall of the tube, and stir in the buffer to let the sample dissolved thoroughly.

Drain the swab after stir by squeeze the liquid out against the wall of the tube.

Note: handle the used swab carefully.

Take out the swab, and the prepared solution will be used for testing.

Note: if the prepare sample can't be tested at once, store it at 4°C for no more than 24.

For long term storage, please keep it in -20°C.

7. Test Steps

- The test will take less than 15min. Schedule your time before test.
- Take out the sample, and bring it to room temperature if it is refrigerated. For example, take the sample and keep at room temperature for 30min.
- Take the needed test cassette, plastic pipette (100ul micropipette can also be used).
- Open the foil pack, and take 100ul prepare sample solution from the sample tube with pipette, add into the Sample Well on the cassette carefully, drop by drop.
- The liquid will flow from sample well to test region in seconds. Set the timer to 5min.
- Observe the result from 5-15min after adding the liquid into sample well on the cassette.

Note: Strong positive result will be observed in 5min, while weak positive, negative result will be slower and will be observed in less than 15min. Result over 20min will be invalid.

8. Result interpretation

There are 2 lines on the cassette, Control Line (Line C) and Test Line (Line T). Line C is used for quality control. If Line C is invisible after testing, the result will be invalid, please run the test again with new cassette.

NEGATIVE

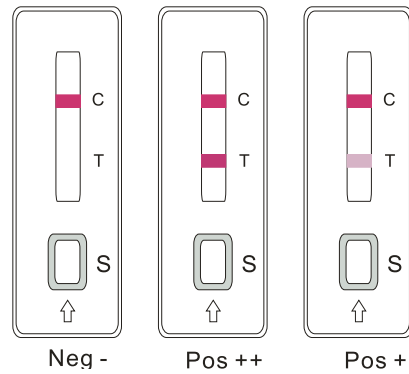
Only Line C is visible, Line T is not visible

POSITIVE

Line C and Line T are both visible.

Stronger (Darker) Line T indicates **Strong Positive (++)**

Weak (Lighter) Line T indicates **Weak Positive (+)**



9. Sensitivity and specificity

The kit is 99.5% sensitive to influenza antigen, the specificity is 100%.

The kit does NOT detect antigens of NDV, IBV and IBD, etc.

10. Limitation of the methodology

- The kit is for screening purpose and on-site test. Positive result shall be further confirmed by PCR and/or other official methodologies. Diagnosis of Influenza shall be determined by the vet, considering both clinical symptom and laboratory test.
- The Color of Line T is related to influenza antigen contained in the sample. If the antigen concentration is at very high level, Line T may appear and then be lighter, in this case, please future dilute the sample solution with DD water and run the test again to see a stable Line T.

11. Storage and period of validity

The kit will be valid for 18 months when stored at 4-30 °C in dry and dark place. Do not freeze. Avoid direct sunlight.

Production date and expiry information are printed on the package.