VDRG® AIV Ag Rapid kit 2.0

CAT. NO. PP-AIV-12

MEDIAN Diagnostics

GENERAL DESCRIPTION

VDRG® AIV Ag Rapid kit 2.0 is a lateral flow chromatographic immunoassay for the detection of avian influenza virus (AIV) in an avian cloaca feces or scattered feces.

This is a diagnostic kit to detect AIV antigen by mixing avian cloaca feces with dilution buffer followed by putting them into the sample hole. If there are AIV antigens in the avian cloaca feces , these antigens bind to AIV specific antibody-Cellulose Nano Bead (CNB) conjugates and move on the membrane by capillary forces, and then shows a red line on the test line due to the binding with AIV specific antibodies which are already applied on the membrane. This test kit, the diagnostic reagent can detect AIV antigens quickly and simply at 15 minutes after injection of samples.

KIT COMPONENTS

Components	30 Tests/Kit
① AIV Ag Rapid device	30 tests
② Sample dilution buffer(1ml)	30 vials
③ Swabs	30ea
④ Dropper cap	30ea
⑤ Instruction Manual	1copy

APPEARANCE

1. In a test device : Specimen application round hole (S) is located at lower part of plastic cassette. The location of the test (T) and control (C) lines are marked on the rectangle display. The sample pad, feces separation pad, conjugate pad, nitrocellulose membrane, and absorption pad are attached to the test strip with them overlapped one after another.

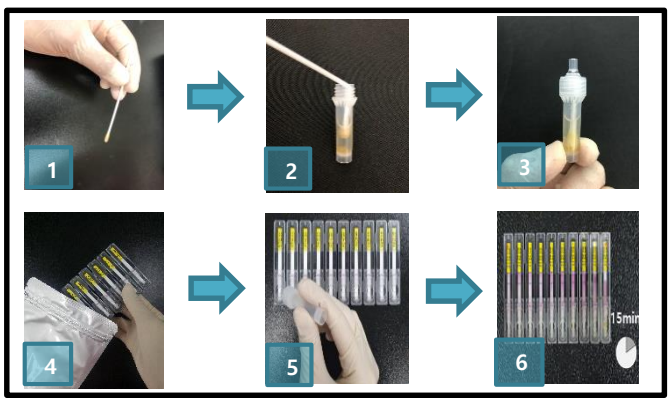
2. Sample dilution container : There is a transparent and colorless liquid buffer in the plastic container for dilution of a sample.

SAMPLE PREPARATION

1. Use avian feces as samples.
2. Take the sample by pricking inside of feces deeply or pulling out directly through avian's anus.
3. Then mix together the sample and dilution solution.

TEST PROCEDURE

1. Swab the feces from the stool or rectums using the sample collection swab.
2. Put the sample swab(③) in a tube containing the sample diluent(②), mix it 10 times, then cut the groove into the swab and cut off the rod, and let the head of the swab fall into the tube.
3. Attach the dropper cap (④) to the tube containing the sample dilution solution and the cut swab to close it.
4. Place the VDRG® AIV Ag Rapid kit 2.0 device(①) on a flat surface.
5. Take the supernatant of sample solution using dropper, and then instill 4 drops into the test device.
6. Verify the result at 15 minutes.



TEST METHOD SUMMARY

Sample dilution buffer
+
Swab sample

↓

Device preparation

↓

Drop the sample solution(4 drops)

↓

15 min

↓

Reading the results

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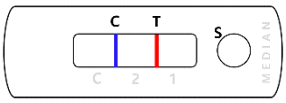
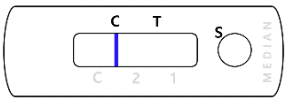
INTERPRETATION OF RESULT

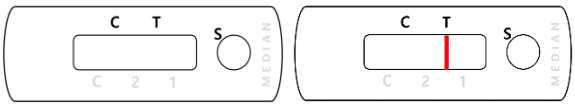
1. Positive : When there are the blue control line and the red test line.



2. Negative : When there are a blue control line but no test line.



3. Re-test : When there is a test line but no control line, or there are no control line and test line.



* Regardless of AIV presence, a control line should always appear. The control line is needed to check whether abnormal reaction occurs or not, so if there is no control line, re-test should be performed.

PRECAUTIONS

1. For in-vitro animal diagnostic use only.
2. Read this instruction manual thoroughly and follow all steps strictly for successful use of the product.
3. Extended exposure of this Rapid Test Device to moisture may decrease test performance. Therefore, open the device right before use (<10 minutes).
4. Make sure to use a separate test tube, dropper, and cotton swab for each sample.
5. Do not touch the membrane in the device. The results may be affected.
6. Do not use test device and reagents after expiration date.
7. Wear personal protective equipment (PPE) such as lab coat, goggle, and disposable gloves while performing the assay. Wash hands thoroughly afterwards.
8. All test samples should be considered potentially infectious and all items contacting the samples should be considered contaminated.
9. After use, all wastes should be sterilized with high-pressure steam at 121 degrees Celsius for ≥15 minutes or comparable methods.
10. This Rapid Kit is made for preliminary test only. The result should be confirmed by other laboratory tests for final diagnosis.

STORAGE AND STABILITY

Store all reagents at 2~30℃. Do not freeze. Reagents remain stable until the expiration date when stored as instructed.

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