

# ADV Ab Rapid Test Kit

for research use only

Product #: T10261 / for ADV/ADMV

This product is only For veterinary use only.

For any suspicious result, please further confirm with CIE or ELISA, or further consult with your veterinarian.

## 1. Before Test

- 1) Check the validation and expiry information of the kit; make sure the kits are valid and stored properly before use.
- 2) If the package is broken or damaged before use, please do not use. Contact your supplier and see if it is usable.
- 3) The sample and sample tube shall be handled properly. All used strips shall be collected according to local regulations.
- 4) Take the strip out from the package according to your requirement and use for test immediately.
- 5) Do not open the plastic container before use.
- 6) This test strip is used for only once, do not use repeatedly.

## 2. Introduction

ADV is the pathogen that causes the severe chronic disease in mink and ferret, etc., causing significant decrease in the host growth and reproduction performance. Serology testing is currently the valid methodology for the diagnosis of ADV infection, i.e., ELISA and Counter immune electrophoresis, etc. Due to the deficiency of time-consuming, complicated operation and expensive facilities, farmers and researchers are looking for new ways to simplify the work. Rapid test strip, also known as lateral flow test strip, is the newly developed technology to solve the current problem of ADV diagnosis.

## 3. Principle

This current test is based on immunochromatographic assay, in which double antigen sandwich immunoassay is employed. There are two Lines (Line C and Line T) on the test strip. Line C is coated with secondary antibody, which will recognize Mink/Ferret IgG and always appear. Colloid gold conjugated antigen A (coated on a membrane) will recognize the ADV antibody in the serum or blood and then the other antigen B will capture the antigen A-antibody complex on the Line T, then a positive result is out with 2 lines on the strip. If Line T is invisible, the result will be negative. If Line T is weaker than Line C, a weak positive result will be obtained.

## 4. Kit Components

ADV Ab Test Strip, 96pcs	Plastic Pipette, 5pcs
Microwell plate, 1 plate	Microwell reagent, 96wells
Blood paper, 96pcs	Blood comb and paper, 12pcs
Buffer, 1 bottle	Samples record, 2pcs
Kit instruction, 1 pc	

**Note:** sample buffer can be provided upon request for more sensitive result.

## 5. Sample preparation

- 1) Mark the blood comb with marker
- 2) Cut off the fingernail of mink with hand shear (please sterilize it with alcohol or iodine before using)
- 3) Collect mink blood with blood paper provided in the kit
- 4) Paste the blood paper in the marked blood combo, please ensure the lower edge is aligned

**Note:** please ensure the blood paper cannot touch each other

## 6. Assay Steps

- 1) Take needed microwells, put in the microwell plate
- 2) Add 100  $\mu$ l of buffer into the microwells with plastic pipette

- 3) Insert the blood comb into the microwells in order, shake gently to dissolve the blood
- 4) 2 min later, take out the blood comb
- 5) Insert the test strip, wait for 5 min, then cut the absorption end, end the reaction.

**Note:** Result observed over 5min or less than 5min may not be accurate.

## 7. Result Determination

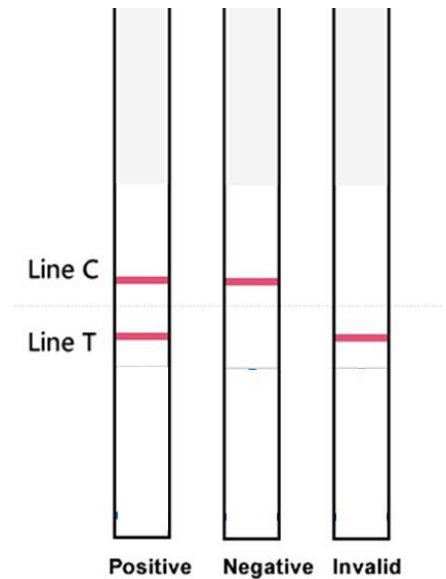
There are two lines on the strip, Line C for Control Line, Line T for Test Line.

**NEGATIVE (-):** Line C is visible, and Line T is not visible.

**POSITIVE (+):** Line C is visible and Line T is visible. A strong color of Line T indicates strong positive, and weak Line T means weak positive.

## 8. Special notice

- 8.1 Read the kit instruction carefully before use.
- 8.2 Use the strip within 30min after taking out from the plastic package.
- 8.3 The test strip can be used for only once, do not use repeatedly.
- 8.4 The test result is for reference, suspicious result may need further confirmation with ELISA or CIE.



## Manufacturer Information

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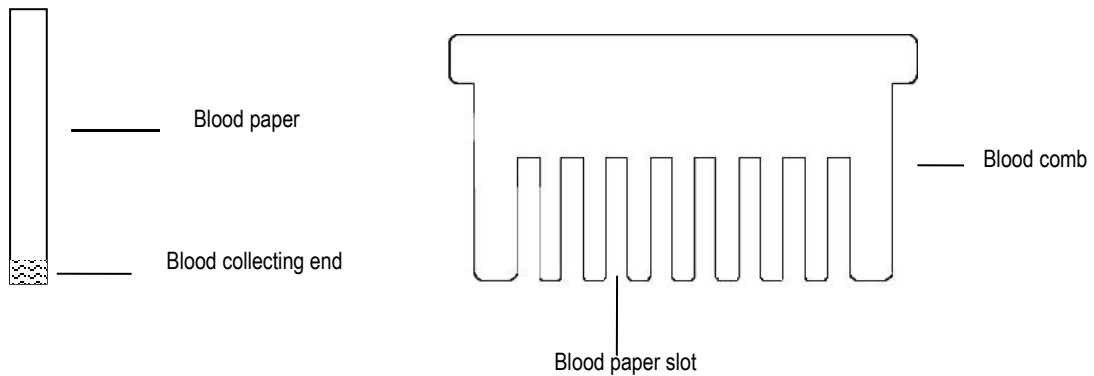
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## How to use the blood comb and blood paper

### 1. Check the kit content, identify the following components

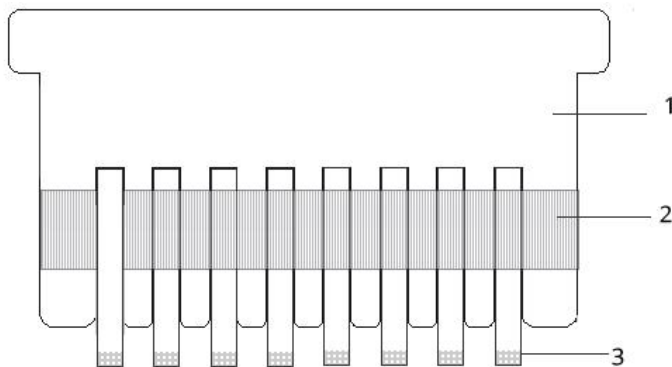
**Blood Paper:** for blood sample collecting. Bleed the mink, and collect the blood with the blood end of the blood paper. Make sample number record on the blood paper.

**Blood comb:** for blood paper supporting. To provide a support when running the assay. Attach the collected blood paper in the slot of the comb, and stick on it with adhesive tape.



### 2. Attach the blood paper to the blood comb

In the picture below, No. 1 is the Blood Comb. No 2 is the adhesive tape. No 3 is the blood paper.



**3. Release the sample:** take out the microwell reagent plate and add 100ul sample buffer (distilled water or purified water) in into the microwells. Insert the prepared blood comb in well and incubate at 37°C.

