

Product Overview

Canine distemper is a highly contagious infectious disease of dogs caused by canine distemper virus (CDV). In the early stage, it manifests as biphasic fever, acute nasal catarrh, and later evolves into bronchitis, catarrhal hepatitis, severe gastroenteritis, and neurological symptoms. Hyperkeratosis of the nose and foot pads of a small number of sick dogs can occur. WC CDV Antigen Rapid Diagnostic Test Strip can quickly detect canine distemper virus antigens in canine ocular secretions (on the conjunctiva), nasal fluid and saliva by immunochromatography.

Test Principle

A specific antibody to CDV is immobilized on the detection line (T) of the nitrocellulose membrane, and another specific antibody to CDV is contained in the colloidal gold particles. As the antigen-antibody complex moves toward the detection line (T) by capillary action, it undergoes a second antigen-antibody reaction with another CDV-specific antibody in the detection line (T), and turns purple-red, and thus the result is judged.

Materials Provided

CDV antigen rapid diagnostic test strip contains the following materials:

1. CDV test strip
2. Bottled buffer solution
3. Buffer solution holder
4. Disposable dripper
5. Sterile cotton swab
6. Instruction manual

Instructions

1. Peel off the sealing film of the buffer solution collection tube and put it into the buffer solution holder;
2. Open the package and take out the test strip, and place it flat on a spacious and dry surface;
3. Collect the dog's ocular secretions (on the conjunctiva), nasal fluid, or saliva with cotton swabs, at room temperature, insert it into the buffer solution tube immediately, mix it, and squeeze it by hand 5-10 times;
4. Cover the dripper, and slowly add 4 drops of the mixed solution into the sample hole upside down;
5. When the reaction is in progress, a purple-red band can be seen moving in the reaction window in the middle of the test paper;
6. Read the results within 5-10 minutes, and the results after 10 minutes are considered invalid.

Result Determination

This product determines the result by whether the test line (T) and the control line (C) develop color.

- If the purple-red bands develop in both the control line (C) and the test line (T) indicate that the test sample contains CDV antigen, as shown in Figure 1);
- If the test line (T) does not develop color, it means that the test sample does not contain CDV antigen, as shown in Figure 2);
- If the control line (C) turns blue, it means that the operation process is incorrect or the test card is invalid, please test again, as shown in Figure 3).

- 1) Positive result



- 2) Negative result



- 3) Invalid result



The color shade of the purple-red line at the test line (T) is directly related to the CDV antigen content in the test object. When the antigen content in the test substance is high, the line at the test line (T) may appear, and then the purple-red may gradually fade or even disappear. At this time, it is recommended to dilute the sample by 10 times before testing.

Precautions

1. Only for veterinary diagnosis;
2. Do not ingest food or smoke when collecting samples;
3. This product is very sensitive to humidity, so pay attention to the decline in function caused by humidity;
4. When taking out the product, avoid touching the detection line with hands or other foreign objects;
5. Avoid being infected by unknown viruses when collecting samples;
6. Wear disposable gloves when collecting potentially infectious substances, and wash your hands afterwards;
7. When using, pay attention to repeated freezing and thawing may cause false negative or false positive;
8. Test samples used within 3 days need to be stored at 2-8°C, and those used for more than 3 days need to be frozen at -20°C.

Test Limitation

Even if the WC test strip can accurately detect CDV antigen, there may be chance for false positives and false negatives. Therefore, it is necessary to combine the test results with clinical symptoms and make a comprehensive judgment based on the doctor's experience.

Preservation and Valid Period

Store airtight at room temperature (2-30 °C), do not freeze. Valid for 24 months from date of manufacture.

< Method of Use >

