Canine Distemper Virus Antigen Lateral Flow Assay Kit

Catalog No: E-AD-C025

40T

This manual must be read attentively and completely before using this product.

If you have any problems, please contact our Technical Service Center for help.

Phone: 240-252-7368(USA) Fax: 240-252-7376(USA)
Email: techsupport@elabscience.com
Website: www.vetassay-elab.com

Please kindly provide us the lot number (on the outside of the box) of the kit for more efficient service.

Test principle

This kit uses the principle of Immunochromatography assay for the qualitative detection of canine distemper virus antigen in nasal fluid, saliva, conjunctival secretion, serum, urine sample of canine. The sample will move together with the colloidal gold marker along the chromatography membrane. If Canine Distemper Virus (CDV) antigen exist in the samples, it will combine with the colloidal gold marker to make the detection line appear a color. Otherwise, it will not show the color reaction.

Kit components

Item	Specification
Detection Card (with disposable dropper)	40T
Sample Diluent	40 vials
Cotton Swab	1 package
Manual	1 copy

Note: All reagent bottle caps must be tightened to prevent evaporation and microbial pollution.

Notes

1. FOR RESEARCH USE ONLY. Please read the manual carefully before use, changes of operation may result in unreliable results.
2. Do not use product out of date or in a broken aluminum foil, it is disposable and cannot be used repeatedly.
3. The detection card should be brought to room temperature before opening after take it out from the refrigerator. The opening detection card should be used as soon as possible.
4. Please do not use but not limited to the following liquids for negative control: water, PBS.
5. The tested sample should be fresh and clear. Avoid of using samples of turbidity, polluted, high hemolysis or abnormal viscous.
6. Avoid of touching the chromatography membrane of the sample well and test well.
7. The waste of experiment should be considered as contaminant, and must be properly handled according to the local regulations.
8. **Each reagent is optimized for use in the E-AD-C025. Do not substitute reagents from any other manufacturer into the test kit. Do not combine reagents from other E-AD-C025 with different lot numbers.**

Storage and expiry date

Storage: Store at 2-30℃. With cool and dry environment.

Expiry date: expiration date is on the packing box.

Sample preparation

1. **Nasal fluid, saliva and conjunctival secretion:** Cotton Swab with physiological saline solution to swab nasal fluid, saliva, conjunctival secretions. Immediately, insert the cotton swab into the **Sample Diluent**, stir the swab until the sample is dissolved into the sample diluent fully. Discard the cotton swab after wiping it against the wall of the tube. Make sample solution stand for later use.
2. **Serum, urine:** Add 5 drops (about 100 μL) of serum or urine samples to the **Sample Diluent**, mix fully, make the sample solution stand for later use.

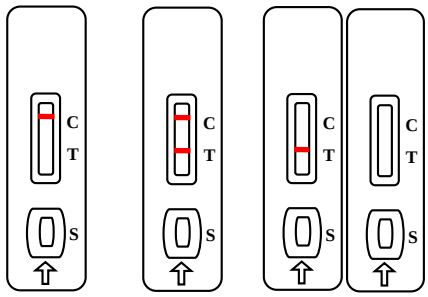
   Note: In the initial stage of canine distemper virus infection, it is better to take blood as the sample. Because there are no symptoms such as conjunctivitis, dry cough, diarrhea and so on. If suspected symptoms of canine distemper virus infection have appeared, it is more convenient to take the conjunctival epithelial cells or urine as the sample.

Assay procedure

1. Tear the aluminum foil bag of the detection card and take out the detection card, and put it on a smooth, clean table.
2. Take the sample supernatant with the disposable dropper, add 3 drops (about 60 μL) of sample to the sample well vertically and slowly (Avoid foaming).
3. Incubate for 5 to 10 minutes and then judge the results immediately.

Judgment of result

1. **Negative:** Only the control line region (C) shows a line in the observation well.
2. **Positive:** Both the test line region (T) and the control line region (C) show a line in the observation well.
3. **Invalid:** No line shows in the observation well of the control line region (C).



Negative Positive Invalid

Interpretation of the results

1. The negative result reveals that there is no CDV antigen in the sample. If there is a corresponding acute symptom, then CDV infection cannot be excluded.
2. The positive result reveals that there is CDV antigen in the sample. It might be infected with CDV, and the result should be combined with other methods to analyze.
3. As the CDV vaccine is generally with low virulence, the virus will increase in the body for a period of time which shows a positive result in the process of immunizing. The phenomenon will disappear in 3-10d after immunization. Animals treated with monoclonal antibodies may exhibit false-positive for a long time because the animals produce second antibodies to the anti-monoclonal antibodies in the body.

Limitations

1. This kit can be used for qualitative detection of CDV antigen in canine.
2. The detection results of this kit are only for reference. For confirmation of the result, please combine the symptoms and other methods of detection, this detection cannot be used as the only criteria for result.