

## **Canine Toxoplasmosis Antigen Lateral Flow Assay Kit**

**Catalog No:** E-AD-C099

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.

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Website: [www.vetassay-elab.com](http://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 Toxoplasmosis antigen in serum and feces of canine. The sample will move together with the colloidal gold marker along the chromatography membrane. If canine Toxoplasmosis (TOX) 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.

## 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 Do not use product out of date or in a broken aluminum foil, it is disposable and cannot be used repeatedly.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-C099. Do not substitute reagents from any other manufacturer into the test kit. Do not combine reagents from other E-AD-C099 with different lot numbers.

## Storage and expiry date

**Storage:** Store at 2-30°C. With cool and dry environment, avoid freeze.

**Expiry date:** expiration date is on the packing box.

## Sample preparation

1. **Serum:** Use the conventional method to prepare serum, the serum must be clear, no hemolysis and no pollution. Samples can be conserved at 2-8°C in 1 weeks, and it should be stored at -20°C for a long term storage. Take 4-5 drops (about 100 µL) of serum to the **Sample Diluent**, mix fully.
2. **Feces:** Take feces after soaking cotton swab with normal saline. 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.

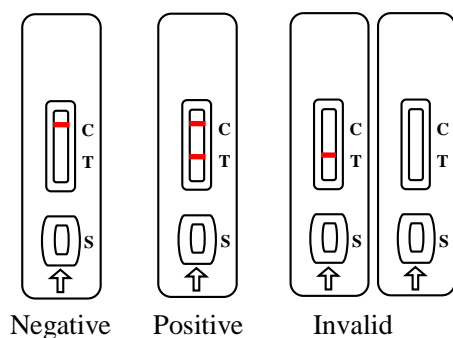
## Assay procedure

Allow all kit components and sample to reach room temperature (25 °C) prior to testing.

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 clear sample supernatant with the disposable dropper, add 3 drops (about 60 µL) of **Sample Diluent** to the sample well (S) vertically and slowly (Avoid foaming).  
**Note:** Excessive feces sample may lead to wrong results (e.g. black band, etc.).
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.
1. **Positive:** Both the test line region (T) and the control line region (C) show a line in the observation well.
2. **Invalid:** No line shows in the observation well of the control line region (C).



### **Interpretation of the results**

1. The negative result reveals that there is no TOX antigen in the sample. If there is a corresponding acute symptom, then TOX infection cannot be excluded.
2. The positive result reveals that there is TOX antigen in the sample. It might be infected with TOX, and the result should be combined with other methods to analyze.
3. As the TOX 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 3-10 days after the immunization. Animals treated with monoclonal antibodies may exhibit false-positive for a long time because the animals produce second antibodies to the monoclonal antibodies in the body.

### **Limitations**

1. This kit can only be used for qualitative detection of TOX 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.