

## **Foot and Mouth Disease Virus Type A Antibodies Lateral Flow Assay Kit**

**Catalog No:** E-AD-C056

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](mailto:techsupport@elabscience.com)

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 Foot and Mouth Disease Virus Type A antibodies in cattle, goat and sheep serum sample. The sample will move together with the colloidal gold marker along the chromatography membrane. If Foot and Mouth Disease Virus A (FMDA) antibody exist in the samples, it will combine with the colloidal gold marker and the antigen in the detection line, then it will show a color. Otherwise, it will not show the color reaction.

## Kit components

| Item                            | Specification |
|---------------------------------|---------------|
| Detection Card (with a pipette) | 40T           |
| Antibody titer color card       | 1             |
| Manual                          | 1 copy        |

## 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 Do not use product out of date or in a broken aluminum foil, it is disposable and cannot be used repeatedly.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-C056. Do not substitute reagents from any other manufacturer into the test kit. Do not combine reagents from other E-AD-C056 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

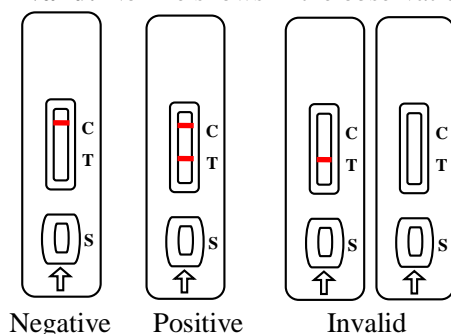
1. **Serum:** Use the conventional method to prepare serum, the serum must be clear, no hemolysis and no pollution. Samples can be conserved at 2~8°C in 1 weeks, and it should be stored at - 20°C for a long term storage.

## 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 with the pipette, add 2~3 drop (about 60 µL) of supernatant to the sample well vertically and slowly (make sure that there is no liquid outflowing from the well).
3. Incubate for 10 to 15 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).



## **Interpretation of the results**

1. If this tested porcine has not been immunized with FMDA vaccine:
  - (1) The negative result reveals that there is no FMDA antibody in the tested sample. If the drove are healthy, then they should be immunized with FMDA vaccine in time. If there is a corresponding acute symptom, then FMDA infection cannot be excluded.
  - (2) The positive result reveals that this animal might be infected with FMDA, and the result should be combined with clinical and other methods to analyze.
2. If this tested animal has been immunized with FMDA vaccine:
  - (1) If the color of the test line (T)  $\geq$  1:32 titer of the color card, which indicates that the level of antibody is up to the protective level of it.
  - (2) If the color of the test line (T)  $<$  1:32 titer of the color card, which indicates that the level of antibody is not enough to reach to the protective level of it, a second time of vaccination is suggested.

## **Limitations**

1. This kit can only be used for qualitative detection of FMDA antibodies in cattle, goat and sheep. A rough estimate (high, general, low) of the antibody concentration can be calculated according to the color shade of the detection line.
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.