Avian Influenza Virus Antigen Rapid Test Kit
Catalog No: E-AD-C002
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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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 Colloidal Gold Immunochromatography assay (GICA). The sample will move together with the colloidal gold marker along the chromatography membrane. If Avian Influenza Virus (AIV) antigen exist in the samples, it will combine with the colloidal gold marker to make the detection line appear a purple color. Otherwise, it will not show the color reaction.

Kit components

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Detection card (with a straw)</td>
<td>40T</td>
</tr>
<tr>
<td>Sample diluent</td>
<td>40 vials</td>
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<tr>
<td>Cotton swab</td>
<td>40</td>
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<tr>
<td>Manual</td>
<td>1 copy</td>
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Sample preparation
1. Weigh about 0.1 g or 100 μL of poultry excrement or laryngotracheal secretion with a cotton swabs (sample collection affects the detection result, ensure it accurately and adequately).
2. Insert the cotton swab into a sample tube immediately that contain sample diluent, stir the swab until the sample is dissolved into the diluent fully. Discard the cotton swab after wiping it against the wall of the tube. Store at room temperature for detect.
   Note: Excessive excrement sample may lead to wrong results (e.g. black belt, etc.), dilute sample with sample diluent for the test.

Assay procedure
1. Take out the detection card and put it on a clean table.
2. Take the sample supernatant with the straw, add 2~3 drops (about 60 μL) of sample to the sample well vertically and slowly (make sure that there is no liquid outflowing from the well).
3. Keep the detection card stand at room temperature for 10~15 min, then judge the result. The result is invalid if the time is more than 30 min.
Judgment of result

1. **Negative**: Only the control line region (C) shows a purple line in the observation well.
2. **Positive**: Both the test line region (T) and the control line region (C) show a purple line in the observation well.
3. **Invalid**: No purple 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 AIV antigen in the sample. If there is a corresponding acute symptom, then AIV infection cannot be excluded.
2. The positive result reveals that there is AIV antigen in the sample. It might be infected with AIV, and the result should be combined with clinical and other methods to analyze.

Limitations

This kit can be used for detection of AIV common antigen in Poultry only, cannot be used for subtype analysis.
Notes
1. Please read the manual carefully before use. All kinds of reagents provided in this kit are only for this experiment.
2. Do not use expired products or products with a broken aluminum foil.
3. The detection card should be brought to room temperature before use. The opening detection card should be used as soon as possible.
4. Do not use deionized water, tap water or normal saline as the negative control.
5. Avoid of touching the chromatography membrane of the sample well and test well.
6. The waste of experiment should be considered as contaminant, and must be properly handled according to the local regulations.

Storage and valid period
Storage: Store at 2-30°C with dry condition.
Valid Period: 2 years, expiration date is on the packing box.