

## Instructions for Use

Revision date: 27-Nov-20

### Newcastle Disease Virus Antigen Rapid Test Kit

**Catalog No.:** abx092016

**Size:** 50 tests

**Storage:** Store all reagents at 2-30 °C. Keep dry.

**Application:** For qualitative detection of Newcastle Disease Virus Antigen in poultry excrement or esophageal secretions.

#### Introduction and assay principle

Abbexa's Newcastle Disease Virus Antigen Rapid Test Kit is a qualitative lateral flow immunochromatographic assay for the detection of Newcastle Disease Virus (NDV) Antigen in poultry samples. The cassette contains a colloidal gold conjugated antibody against NDV, which combines with any NDV antigen present in the samples. The complex binds with the antibody coated on the test region of the cassette. A colored band develops within 15 minutes in the test region if the concentration of NDV antigen in the sample is higher than the detection limit. A control region on the upper end of the cassette confirms if the test has been successful.

#### Kit components

- Test cassettes (packaged in foil pouches containing disposable pipettes): 50
- Sample diluent: 50 vials
- Cotton swabs: 50

#### Sample preparation

1. Using a cotton swab, take 0.1 g or 100 µl of poultry excrement or esophageal secretion. Ensure that sufficient sample has been collected on the swab. **Note:** Do not use excessive quantities of stool samples as this may lead to black bands forming in the test result window, which will cause an invalid result.
2. Immediately insert the cotton swab into a tube containing Sample Diluent. Stir until the sample has completely dissolved. Wipe the swab against the inside of the tube, then discard the swab. Allow the mixture to stand.

#### Assay procedure

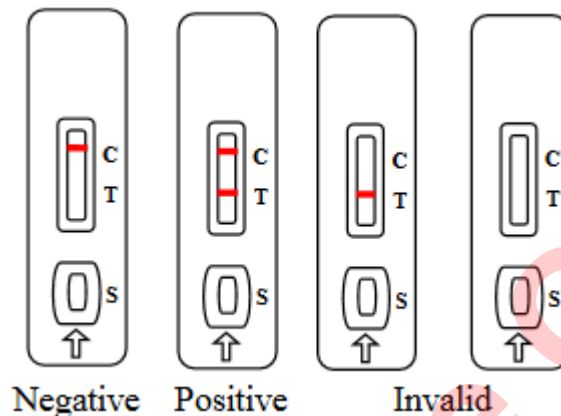
1. Take a test cassette and lay it flat on a clean table. Using the provided pipette, add 2-3 drops (approximately 60 µl) of prepared sample to the sample well on the test cassette. Avoid touching the membrane in the middle of the sample well, and avoid foaming.
2. Leave at room temperature for 10-15 min, then analyze the result. The result is invalid if read after 30 min.

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### Results analysis

- **Negative result:** A line is observed in the control (C) section but not the test (T) section.
- **Positive result:** A line is observed in both the control (C) section and the test (T) section.
- **Invalid result:** No line is observed in the control (C) section.



### Notes

1. The test cassettes and reagents should be brought to room temperature before use.
2. After opening the aluminum foil, use the test cassette as soon as possible.
3. Samples should be clear with no visible particles, turbidity or bacterial pollution.
4. Do not mix or re-use the disposable pipettes to avoid cross-contamination.
5. Do not use water, PBS or serum from other animals as the negative control.
6. Avoid touching the cassette membrane through the sample well or test result window.
7. This kit is for qualitative detection of NDV antigen in poultry samples.
8. Samples from animals taken 3-10 days after being vaccinated against NDV may show a positive result, as attenuated NDV vaccines can cause NDV antigen concentrations to increase in animals.
9. This kit is for research use only and the results are for reference only. It is recommended to use this kit in conjunction with another detection method.