



ANIGEN Rapid NDV Ag Test Kit

Catalogue No.: RG15-03

Anigen Rapid NDV Ag Test Kit is a solid phase chromatographic immunoassay for the qualitative detection of Newcastle Disease virus antigen in avian cloaca or trachea swabs.

Background

Newcastle Disease (ND) is characterized by sneezing, coughing, and nervous behaviour. Affected birds may show tremors, circling, falling, twisting of the head and neck, or complete paralysis. Mortality reaches 90% in very young birds but adult mortality is very low. Among affected laying hens, egg quantity and quality drop sharply at first but usually return to former levels within four to eight weeks. ND can cause death even in vaccinated poultry and is characterised by its sudden appearance and rapid spread to nearby flocks. Diagnosis is usually made by virus isolation, serology and clinical signs. The hemagglutination inhibition (HI) test is used widely in ND virus serology, with cross-reactions in HI tests between ND virus and some of the other paramyxoviruses being reported. The newly developed Anigen Rapid NDV Ag test kit is highly specific to NDV.



Specifications

- Principle: Immunochromatographic assay using Direct Sandwich Method
–Monoclonal anti-NDV (Capture)– NDV – Monoclonal anti-NDV (Detector)
- Purpose: Detection of new castle disease virus
- Specimens: Avian cloaca or trachea swab
- Reading time: 5-10 minutes
- Sensitivity: 94.7% vs. RT-PCR
- Specificity: 96.4% vs. RT-PCR
- No cross reaction against AIV, IBV (infectious bronchitis), IBDV, Mycoplasma
- Detection limit: 0.25 HAU (Hemagglutination Unit)
- Shelf life: 12 months
- Storage temperature: 2~30 °C
- Packing size: 10 Tests/Kit

Special Features

- **NDV control is aided by fast and accurate diagnosis.**
- **Detection of all strains of NDV**
- **World first commercialised rapid test kit for detection of NDV**
- **Sample swabs are included for convenient test specimen sampling**
- **Rapid test result: 10 minutes.**
- **Easy test procedure: No technical expertise required, Labour & Time saving.**
- **No additional equipment is required.**

Test Procedures



Collect a cloaca or trachea swab



Dilute the swab sample with assay diluent and drop 4 drops

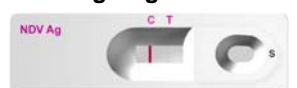


Wait for 10 min.

NDV Ag Positive



NDV Ag Negative



Sensitivity & Specificity Study

Table 1) Sensitivity study compared with a commercial NDV RT-PCR Kit

| | No. of Specimen | Anigen Rapid NDV | RT-PCR |
|-----------------|-----------------|------------------|--------|
| Positive result | 18 | + | + |
| | 1 | - | + |
| Sensitivity | 19 | 18/19(94.7%) | 19/19 |

Table 2) Specificity study compared with a commercial NDV RT-PCR Kit

| | No. of Specimen | Anigen Rapid NDV | RT-PCR |
|-----------------|-----------------|------------------|--------|
| Negative result | 81 | - | - |
| | 3 | + | - |
| Specificity | 84 | 81/84(96.4%) | 84/84 |