



ANIGEN Rapid IBDV Ag Test Kit

Catalogue No.: RG15-04

ANIGEN Rapid IBDV Ag Test Kit is a solid phase chromatographic immunoassay for the qualitative detection of Infectious Bursal Disease (Gumboro) virus antigen in avian Bursa of Fabricius or faeces.

Background

Infectious Bursal Disease (IBD), or Gumboro Disease, is a viral disease usually affecting young chickens 3 to 6 weeks old, and is spread through contaminated feed and water. The target organ of the virus is the Bursa of Fabricius, an important organ in the young chickens developing immune system. IBDV serotype 1 causes clinical disease in chickens younger than 10 weeks, with older chickens usually showing no clinical signs. IBDV serotype 2 is very widespread in turkeys and is sometimes found in chickens and ducks. In practice, a diagnosis can be indicated by the sudden onset of mortality in chickens between 2 and 8 weeks of age, and the presence of distinctive lesions in the Bursa of Fabricius and accompanying blood spots in the musculature of the breast and thigh of affected chickens.



Specifications

- Principle: Immunochromatographic assay using Direct Sandwich Method
- Monoclonal anti-IBDV (Capture)- IBDV -Monoclonal anti-IBDV (Detector)
- Purpose: Detection of Infectious Bursal Disease virus antigen
- Specimen: Avian Bursa of Fabricius or cloacal swab.
- Reading time: 5-10 minutes
- Sensitivity: 99.9% vs. RT-PCR
- Specificity: 96.6% vs. RT-PCR
- No cross reaction with AIV, IBV (Infectious bronchitis), NDV, Mycoplasma
- Detection limit: $10^{4.0}$ EID₅₀/ml
- Shelf life: 18 months
- Storage temperature: 2~30 °C
- Packing size: 10 Tests/Kit

Special Features

- **IBDV control is aided by fast and accurate diagnosis**
- **Good correlation with RT-PCR results**
- **Detection of all IBDV**
- **World first commercialised rapid test kit for detection of IBDV**
- **Convenient sampling of test specimens with a swab**
- **Rapid test result: 10 minutes.**
- **Easy test procedure: No technical expertise required, Labour & Time saving.**

Sensitivity and Specificity Study

(1) Sensitivity study in 20 faeces originated from IBDV positive chickens

Result	Anigen Rapid IBDV Ag	RT-PCR
Positive	17	20
Negative	3	0
Sensitivity	17/20(85%)	20/20

(2) Sensitivity study in 12 Bursa of Fabricius originated from IBDV positive chickens

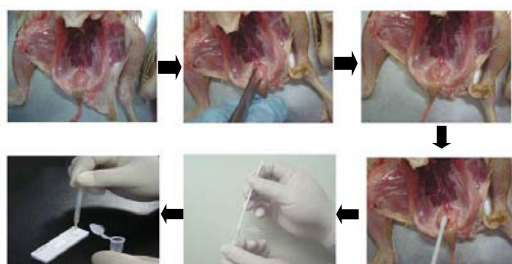
Result	Anigen Rapid IBDV Ag	RT-PCR
Positive	12	12
Negative	0	0
Sensitivity	12/12(100%)	12/12

(3) Specificity study in negative faeces from healthy chickens

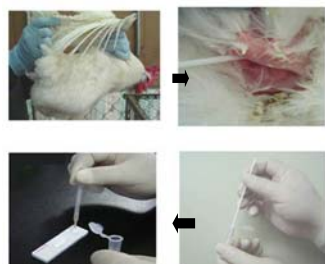
Result	Anigen Rapid IBDV Ag	RT-PCR
Positive	5	150
Negative	145	150
Specificity	145/150(96.6%)	150/150

Test Procedures

1) Swab method of Bursa of Fabricius



2) Cloacal Swab Method



3) Result Interpretation

