



Infectious Bursal Disease (IBD / Gumboro Disease) Antigen Rapid Test



KINER5073

Ver 1.0



For In-Vitro Test Only



1 x 40 tests

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Introduction:

Infectious Bursal Disease (IBD), also known as Gumboro disease, is a highly contagious viral disease of poultry that primarily affects young chickens, causing immunosuppression, increased susceptibility to secondary infections, and significant economic losses in the poultry industry. The disease is characterized by depression, diarrhoea, ruffled feathers, and inflammation or haemorrhage of the bursa of Fabricius. The virus is transmitted mainly through the faecal–oral route via contaminated faeces, feed, water, equipment, and the environment, and is highly resistant to inactivation.

The causative agent, Infectious Bursal Disease Virus (IBDV), is a non-enveloped, double-stranded RNA virus belonging to the genus Avibirnavirus within the family Birnaviridae. Early detection of IBDV is essential for timely disease management and implementation of effective biosecurity and vaccination programmes.

Intended Use:

The Infectious Bursal Disease (IBD / Gumboro Disease) Antigen Rapid Test is used for the qualitative detection of Infectious Bursal Disease Virus antigen in bursa of Fabricius tissue homogenate, cloacal swab samples and faecal samples.

Principle:

This Rapid Test is an immuno-chromatographic test, using colloidal gold immunoassay method to detect the indicated antigen/antibody. After the addition of the sample, as per the instruction for use (IFU), the sample moves along with the colloidal gold labeling protein. If the relevant protein is present, it will develop a reddish color line near the space marked as “T”. This indicates the sample is Positive and if a line is not developed or seen, it indicates the sample is Negative for the tested antigen/antibody.

Materials Provided:

1. Cassette: with a pad in the device.
2. Sample Diluent - 3 ml

Materials to be provided by the End-User:

1. Adjustable pipettes and multichannel pipettor to measure volumes ranging from 25 ul to 1000 ul
2. Alcohol prep-pad
3. Clock or timer
4. Specimen collection container
5. Centrifuge
6. Biohazard waste container
7. Sterile gauze or cotton

Handling / Storage:

1. All reagents should be stored at 2°C to 8°C for stability.
2. All the reagents and wash solutions should be used within 12 months from manufacturing date.
3. Before using, bring all components to room temperature (18-25°C). Upon assay completion ensure all components of the kit are returned to appropriate storage conditions.

Health Hazard Warnings:

1. Reagents that contain preservatives may be harmful if ingested, inhaled or absorbed through the skin.
2. For Research Use Only.

Sample Preparation and Storage:

Faecal /Cloacal swab sample: Collect fresh faecal material or cloacal secretions using a sterile swab. Insert the swab into the specimen tube containing 1 ml of sample diluent. Mix the swab samples well with the sample diluent to ensure proper extraction of the sample. Faecal/Cloacal samples may be stored at room temperature for 24 hours or at 2-7°C for 7 days. If longer storage is required, the samples may be frozen. Avoid sample deterioration by multiple freeze-thaw cycles.

Bursa of Fabricius Tissue homogenate: Collect tissue samples aseptically and cut approximately 0.1 g (100 mg) of tissue and place it into a sterile tube containing 1.0 mL of sample diluent. Homogenize thoroughly to obtain a uniform suspension. Allow large debris to settle or clarify by brief centrifugation if necessary, and use the clear supernatant for testing. Prepared samples should be tested immediately. If testing is delayed, store at 2–8 °C for up to 24 hours or at –20 °C or below for long-term storage. Avoid repeated freeze–thaw cycles.

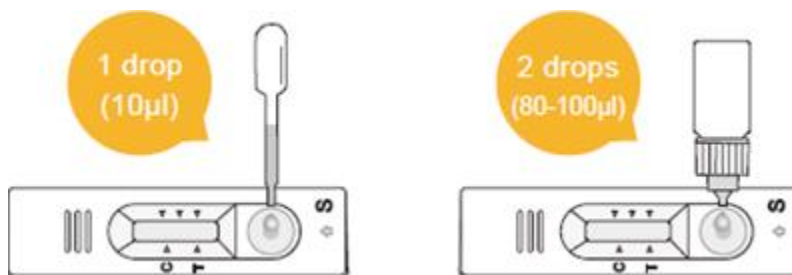
Preparation Before Use:

Instructions must be read entirely before taking the test. Allow the test device controls to equilibrate to room temperature for 30 minutes (20°C - 30°C) prior to testing. Do not open the inner packaging until ready, it must be used in one hour if opened (humidity ≤ 60%, temp: 20°C - 30°C). Please use immediately when the humidity >60%.

Assay Procedure:

For Faecal /Cloacal/Tissue homogenate samples

1. Remove the test cassette from the sealed pouch, place it on a clean and level surface with the sample well up.
2. Add one (1) full drops of prepared sample (10 ul) vertically into the sample well.
3. Add two (2) drops (80-100 ul) of sample buffer into the sample well.
4. Observe the test results immediately within 15~20 minutes, the result is invalid over 20 minutes.

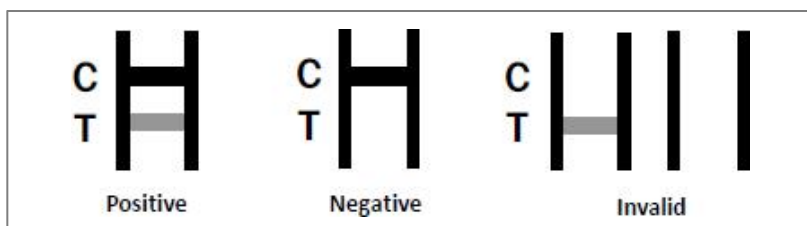


Interpretation of Results:

POSITIVE: Two distinct red lines appear. One line should be in the control region (C) and the other line should be in the test region (T).

NEGATIVE: One red line appears in the control region(C). No red or pink line appears in the test region (T).

INVALID: No red lines appear or control line fails to appear, indicating that the operator error or reagent failure. Verify the test procedure and repeat the test with a new testing device.



Quality Control:

It is recommended that for each laboratory assay appropriate quality control samples in each run to be used to ensure that all reagents and procedures are correct.

Performance Characteristics of the Kit:

Sensitivity:

Negative coincident rate with Molecular testing: $\geq 97\%$, Positive coincident rate with Molecular testing: $\geq 75\%$.

Limitations of Method

Any diagnosis should not be based on the results of in vitro methods alone. Veterinarians are suggested to consider all clinical and laboratory findings possible to state a diagnosis. This reagent is designed for the qualitative screening test.

Safety Precautions:

- Follow the working instructions carefully.
- The expiration dates stated on the kit are to be observed. The same relates to the stability stated for reagents
- Do not use or mix reagents from different lots.
- Do not use reagents from other manufacturers.
- Avoid time shift during pipetting of reagents.
- All reagents should be kept in the original shipping container.
- Some of the reagents contain small amount of sodium azide ($< 0.1\%$ w/w) as preservative. They must not be swallowed or allowed to come into contact with skin or mucosa.
- Since the kit contains potentially hazardous materials, the following precautions should be observed
 - Do not smoke, eat or drink while handling kit material
 - Always use protective gloves
 - Never pipette material by mouth
 - Wipe up spills promptly, washing the affected surface thoroughly with a decontaminant.
- In any case GLP should be applied with all general and individual regulations to the use of this kit.

Symbols



Use by



Lot/Batch



Catalog number



Temperature limitation



Caution, consult accompanying documents



Manufacturer



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