

# Bovine Escherichia coli K99 Antigen Rapid Test

Catalog No.: JIB318

## INTENDED USE

The Bovine Escherichia coli K99 Antigen Rapid Test is a lateral flow immunochromatographic assay for the qualitative detection of Escherichia coli K99 antigen (E.coli K99 Ag) in cattle's feces specimen.

Assay Time: 5-10 minutes

Specimen: feces

## PRINCIPLE

The Bovine Escherichia coli K99 Antigen Rapid Test is based on sandwich lateral flow immunochromatographic assay. The test device has a testing window for the observation of assay running and result reading. The testing window has an invisible T (test) zone and a C (control) zone before running the assay. When the treated sample was applied into the sample hole on the device, the liquid will laterally flow through the surface of the test strip and react with the pre-coated monoclonal antibodies. If there is Escherichia coli K99 antigen in the specimen, a visible T line will appear. The C line should always appear after a sample is applied, which indicates a valid result. By this means, the device can accurately indicate the presence of Escherichia coli K99 antigen in the specimen.

## REAGENTS AND MATERIALS

- 20 Test devices, with disposable droppers
- 20 vials of Assay buffer
- 20 Swabs
- 1 Products Manual

## STORAGE AND STABILITY

The kit can be stored at room temperature (4-30°C). The test kit is stable through the expiration date (18 months) marked on the package label. **DO NOT FREEZE.** Do not store the test kit in direct sunlight.

## TEST PROCEDURE

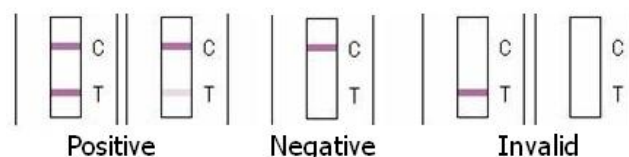
- Collect fresh feces with the swab from cattle's anus or ground.
- Insert the swab into the provided assay buffer tube. Agitate it to get efficient sample extraction.
- Allow all materials, including specimen and test device, recover to 15-25°C before running the assay.
- Take out the test device from the foil pouch and place it horizontally.

- Suck the treated sample extraction from the assay buffer tube and place 4 drops into the sample hole "S" of the test device.

**Note:** If the liquid will not flow through the surface of the test strip in 30 seconds, please add another drop of the treated sample extraction.

- Interpret the result in 5-10 minutes. Result after 15 minutes is considered as invalid.

## INTERPRETATION OF RESULTS



- **Positive (+):** The presence of both "C" line and zone "T" line, no matter T line is clear or vague.
- **Negative (-):** Only clear C line appears. No T line.
- **Invalid:** No colored line appears in C zone. No matter if T line appears.

## PRECAUTIONS

- All reagents must be at room temperature before running the assay.
- Do not remove test cassette from its pouch until immediately before use.
- Do not use the test beyond its expiration date.
- The components in this kit have been quality control tested as standard batch unit. Do not mix components from different lot numbers.
- All specimens are of potential infection. It must be strictly treated according to the rules and regulations by local states.

## LIMITATION

The Bovine Escherichia coli K99 Antigen Rapid Test is for in vitro veterinary diagnosis use only. All result should be considered with other clinical information available with veterinarian. It is suggested to apply a further confirmative method such as PCR when positive result was observed.



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