INTENDED USE

The BVDV Ab Test is a lateral flow immunochromatographic assay for the qualitative detection of BVDV antibodies in cattle's serum, plasma. E2 protein recombinant was applied in this assay, for the monitoring of BVDV antibody level and providing an important reference for the vaccination plan.

Assay Time: 5-10 minutes

Specimen: serum, plasma

PRINCIPLE

The BVDV Ab 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 well on the device, the liquid will laterally flow through the surface of the test strip and react with the pre-coated BVDV antigens. If there are BVDV antibodies in the specimen, a visible T line will appears. The C line should always appear after a sample is applied, which indicates a valid result.

REAGENTS AND MATERIALS

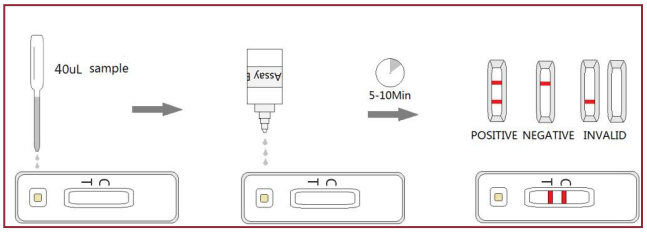
- 10 Test devices, with disposable droppers
- 1 bottle of Assay buffer
- 1 package insert

STORAGE AND STABILITY

The kit can be stored at room temperature (2-30°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 cattle's fresh whole blood, and get the serum or plasma specimen for use. Immediately apply the testing once collected the specimen.
- Allow all materials, including specimen and test device, recover to 15-25℃ before running the assay.
- Take out the test device from the foil pouch and place it horizontally.
- Using the disposable dropper to place 1 drop (approx. 40μL) of the prepared specimen into the sample well "S" of the test device. Then drop 2 drops (approx. 80μL) of the assay buffer into the sample well immediately.
- 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. The density of color T line is related with the level of BVDV antibody titer of the specimen.

- Strong signal is explained as high titer and vaccination should not be carried.
- Weak signal is explained as low titer. Vaccination might not be necessary right now. It is suggested to be re-checked the antibodies few days later.

Negative (-): Only clear C band appear. No T band.

- No signal is explained as the level of antibody titer is lower than protective limit.

Invalid: No colored band appears in C zone. No matter if T band appears. Repeat the testing at once.

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 BVDV Ab Test is for in vitro veterinary diagnosis use only. All result should be considered with other clinical information available with veterinarian.

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