■ *INTENDED USE*

The CORO-ROTA-CRYP-EK99 Ag Combo Test is a rapid diagnostic tool for detecting bovine coronavirus antigen, bovine rotavirus antigen, bovine Cryptosporidium antigen and Escherichia coli K99 antigen.

Symptoms of young cattle infected with bovine coronavirus, bovine rotavirus, Cryptosporidium bovis and Escherichia coli K99 are similar, which can cause diarrhea and dehydration in the sick cattle. This product uses immunochromatographic experiments on cow feces samples to quickly detect whether young cows are infected with the five diseases.

Assay Time: 5-10 minutes

Specimen: feces

■ *PRINCIPLE*

The CORO-ROTA-CRYP-EK99 Ag Combo Test uses rapid immunochromatographic technology to detect CORO, ROTA, CRYP and EK99 antigens. After adding the diluted sample to the sample well of the test paper card, if there is CORO, ROTA, CRYP or EK99 antigen in the sample, the antigen will specifically bind to the colloidal gold-labeled anti-CORO, ROTA, CRYP or EK99 monoclonal antibody. The formed complex moves along the chromatographic membrane and is captured by the corresponding monoclonal antibody pre-coated on the chromatographic membrane, forming a wine-red detection line at the position of the test line. If there is no CORO, ROTA, CRYP or EK99 antigen in the sample, no visible lines will be formed at the T position. In addition, a C line used to verify the validity of the experiment is also designed in the system. Regardless of negative or positive results, the line should be colored, otherwise the result is deemed invalid.

■ *REAGENTS AND MATERIALS*

- 10 test pouches, with cards and disposable droppers
- 10 vials of assay buffer
- 10 bags of swab stick
- 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.

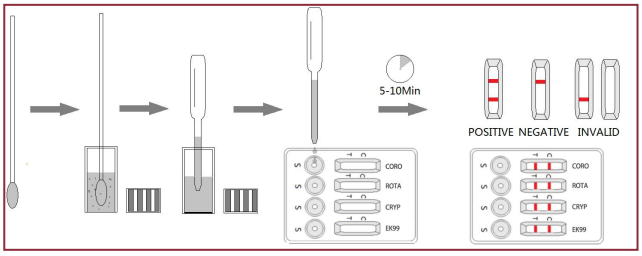
■ *TEST PROCEDURE*

Please read the instruction manual carefully before testing, and restore the test card and the sample to be tested to room temperature 15～25°C.

1. Use the swab to collect a sample of feces that has just been excreted, or take a sample directly from the rectum. Immediately insert the swab into the sample tube containing the buffer solution, remove the swab and shake it vigorously to mix it thoroughly. Let it stand for a few minutes to be tested. (Note: Too much sampling will affect the stability of the colloidal gold particles and easily cause false positive. The sample size should cover 1/3 to 2/3 of the swab head.)
2. Take out a piece of CORO-ROTA-CRYP-EK99 test card bag and tear it open, take out the test card and place it horizontally on the operating platform.
3. Use the dropper to draw the sample solution to be tested and add 4 drops (about 90μL) to the each sample well “S” of the test card.

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.

4. Observe the results within 5-10 minutes, the results will be invalid after 15 minutes.



■ *INTERPRETATION OF RESULTS*

Positive (+): Both control line C and test line T have wine-red bands, indicating that the sample contains coronavirus, rotavirus, cryptosporidium or Escherichia coli K99 antigens.

Negative (-): The control line C has wine-red band and the test line T has no color, which means that the sample does not contain coronavirus, rotavirus, cryptosporidium or Escherichia coli K99 antigen.

Invalid: No colored band appears in C zone. No matter if T band appears. It indicates that the operation process is incorrect or the test card is invalid. Please check and test again.

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 CORO-ROTA-CRYP-EK99 Ag Combo Test is for in vitro veterinary diagnosis use only. All result should be considered with other clinical information available with veterinarian.

Manufacturer:
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