Bovine Ovine Caprine Tuberculosis Antibody (TB Ab) Rapid Test Kit

Technical Manual

(GICA)

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Product Information

Intended Use

This kit is used for detecting Tuberculosis antibodies in blood of bovine, sheep and goat.

Principle

The kit uses colloidal gold immunochromatography assay (GICA). After being added to sample hole("S"), the sample will move along the nitrocellulose membrane with the gold markers. If there are TB antibodies in the sample, they will bind with the gold markers as well as antigens on the test ("T") line, resulting in the appearance of a colored test ("T") line. If not, no color reaction will be produced.

Content

Package specification	20T/Kit	40T/Kit
Test device (with disposable dropper)	20	40
Assay diluent	20	40
Instruction	1	1
Disposable dropper	20	40

Storage Conditions

The kit shall be stored at 2°C to 30°C (35.6°F to 86°F) in dry environment. Avoid freezing.

Shelf life: 24 months. The date of manufacture is presented in the label of the box.

Preparation of Sample

This test card is only suitable for testing **whole blood or serum in bovine, sheep and goat.**

Whole blood: Single-use vacuum blood collection tubes (additive-free) are recommended to obtain fresh blood. The whole blood sample should be used immediately after collection.

Serum: Collect 2-3mL of blood using a collection tube without anticoagulant, let it stand for 30 minutes, and then centrifuge at 4000 rpm for 10 minutes. (Alternatively, the blood can be left undisturbed at 25-40°C for about 2 hours, allowing the serum to naturally separate.) Collect the supernatant as the processed sample. Short-term storage can be done at 2-8°C, while long-term storage requires -20°C. Serum should be clear and bright, free from hemolysis and contamination.

Please note that sample should be return to room temperature (15-30°C) before use.

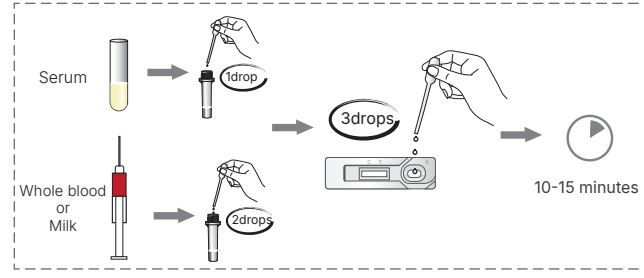
Test Methods

1)Using the provided dropper to aspirate the prepared sample, vertically and slowly add 1 drop of serum (or 2 drops of whole blood) to the Assay diluent tube (Note: This is a critical step. The amount of sample added should not exceed the specified quantities above). Mix the contents thoroughly and set aside for use.

2)Open the foil bag, take out the test card and put it on a flat and clean work surface.

3)Aspirate the tested fluid (Obtained from the step1)) with another dropper, then add 3 drops (approximately 60μL) vertically and slowly into the sample hole("S").

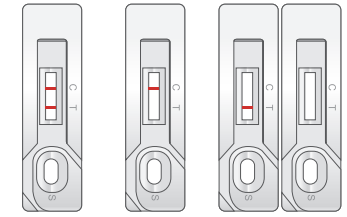
4)Read the result at room temperature in 10 to 15 minutes after adding the tested fluid.



Results Judgement

Negative: Only control ("C") line appears in the result window.

Positive: Both test("T") line and control("C") line appear in the result window. The higher the antibody titer, the darker the color of the test ("T") line.



Invalid: If the control("C") line does not appear, the result might be considered invalid.

Limitation of the Test Method

This kit is only intended for qualitative detection of antibodies against bovine and ovine tuberculosis. An

approximate assessment of the antibody levels, whether strong, moderate, or weak, can be made based on the intensity of coloration of the test line.

Although this kit is highly accurate in detecting antibodies against Tuberculosis, there is still a possibility of occasional false results. If uncertain or questionable results are obtained, additional clinical or laboratory tests may be necessary. As with other diagnostic tests, a definitive clinical diagnosis should not rely solely on the outcome of a single test. Instead, it should be made by the veterinarian after evaluating all clinical and laboratory findings. By considering a comprehensive assessment, veterinarians can ensure a more reliable and accurate diagnosis and provide appropriate care and treatment for the animal.

Notice

1)Please read the instructions carefully before testing. And a variety of reagents are only used for this experiment.

2)Do not use Liquids that do not meet the requirements of Preparation of Sample (such as other animal serum) as negative controls.

3)The kit should be allowed to return to room temperature after being removed from the refrigerator before opening. Once opened, it should be used as quickly as possible to avoid becoming ineffective due to moisture.

4)Avoid using expired or damaged products.

5)Avoid using samples that are contaminated, turbid, severely hemolytic, and have a large amount of blood lipids.

6)Avoid touching the white nitrocellulose membrane in the middle of the detection card.

7)The waste shall be regarded as pollutants. Please dispose of them properly in accordance with the relevant local regulations.