

# Brucella Antibody Rapid Test Kit

**Product #: C40142**

## 1. Precaution

- a) This kit is designed for brucella antibody detection in bovine or goat whole blood, serum, plasma and milk; make sure you are fully aware of the intended use.
- b) Check the kit package carefully and read this instruction through to confirm the validity of the kit, and the appearance of the package. Only valid kit can be used.
- c) If any damage or leakage were found, please contact your vendor for replacement. Do not use in test unless otherwise agreed by the vendor.
- d) All samples collected may be contagious, please handle carefully according to local laws and regulations. Used test kit and tested sample shall be handle carefully to avoid further contamination.
- e) The test cassette, the buffer and swab shall be used within 5min after opening the foil package. Do not open it without planned experiment.
- f) Do not use component from other sources, otherwise the result is not valid.
- g) The kit is designed for one single use, do not use repeatedly.

## 2. Principle

The kit is based on sandwich immunochromatographic assay, to detect brucella antibody in bovine or goat whole blood, serum, plasma and milk, which is rapid, accurate and easy-to-operate.

## 3. Application

This kit is designed to detect brucella antibody in bovine or goat whole blood, serum, plasma and milk. Other applications may be provided upon request.

## 4. Kit Components

- a) Test Cassette, 25 pcs
- b) Sample buffer, 25 pcs
- c) Disposable pipette, 25 pcs
- d) Kit instruction, 1 pc

## 5. Sample Preparation

Milk can be used as the test sample directly.

For whole blood, no treatment is required.

For serum and plasma sample, centrifuge the whole blood at 5000rpm for 2min or store at 4°C overnight, then the supernate will be used as test sample.

## 6. Test Steps

- a) The test will take **15-20min**. Schedule your time before test.
- b) Take out the sample, and bring it to room temperature if it is refrigerated. For example, take the sample and keep at room temperature for 30min.
- c) Take the needed test cassette, plastic pipette (100ul micropipette can also be used).
- d) Open the foil pack, and take sample with plastic pipette provided in the kit. Take the sample with the plastic pipette provided in the kit, take 50ul (approx. 3 drops) into the sample buffer vial, mix thoroughly.
- e) Add 100ul of mixed sample buffer slowly into the sample well on the test card, and observe the result from 15-20min after adding the buffer into sample well on the cassette.

**Note:** Result over 20min will be invalid.

## 7. Result interpretation

There are 2 lines on the cassette, Control Line (Line C) and Test Line (Line T). Line C is used for quality control. If Line C is invisible after testing, the result will be invalid, please run the test again with new cassette.

### **NEGATIVE**

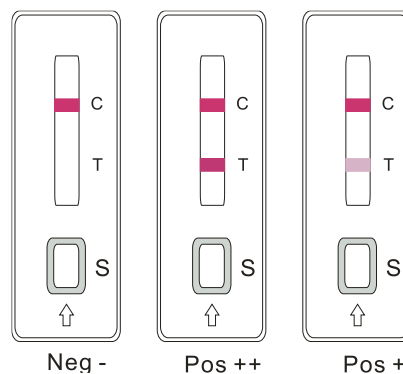
Only Line C is visible, Line T is not visible

### **POSITIVE**

Line C and Line T are both visible.

Stronger (Darker) Line T indicates **Strong Positive (++)**

Weak (Lighter) Line T indicates **Weak Positive (+)**



## 8. Sensitivity and specificity

The kit is 90% sensitive to bovine brucellosis antibody, the specificity is 100%.

The kit does NOT detect antibodies of PRRSV, PRV, SIV, PEDV, FMDV, PCV, CSFV, etc.

## 9. Limitation of the methodology

- The kit is for screening purpose and on-site test. Positive result shall be further confirmed by PCR and/or other official methodologies. Diagnosis of bovine brucellosis shall be determined by the vet, considering both clinical symptom and laboratory test.
- The Color of Line T is related to bovine brucellosis antibody contained in the sample. If the antibody concentration is at very high level, Line T may appear and then be lighter, in this case, please further dilute the sample solution with DD water and run the test again to see a stable Line T.

## 10. Storage and period of validity

The kit will be valid for 18 months when stored at 2-30°C in dry and dark place. Do not freeze. Avoid direct sunlight.

Production date and expiry information are printed on the package.