

# Rapid Test Kit C.Brucella Ab

Anigen Rapid C. Brucella Ab Test Kit is a solid phase chromatographic immunoassay for the qualitative detection of *Brucella canis* antibody in canine blood.



## Background

The causative agent of canine brucellosis is *Brucella canis*. Any bodily fluids can infect another dog and human. The most common sign of brucellosis infection in a healthy-appearing bitch is abortion between days 45 to 59 of gestation. When an infected bitch aborts, spread throughout a kennel can be very rapid. Kennels with active stud dogs should never breed a male to an untested female. Unfortunately, there is no vaccine available for the prevention or treatment of brucellosis. If a dog or bitch in the main kennel area shows positive test result for brucellosis, the entire kennel must be tested. Several tests should be done on each dog, each one a month apart, to make sure that all positive animals are identified, and then immediately destroyed and properly disposed of.

## Specifications

- Principle: Immunochromatographic assay  
- (LPS capture)-(blood)-(Monoclonal anti-canine IgG detector)  
⇒ LPS (Lipopolysaccharide) antigen originated from *Brucella canis*
- Purpose: Detection of *Brucella canis* antibody
- Specimen: Canine whole blood, plasma, or serum.
- Reading time: 20 minutes
- Sensitivity: 93% vs. blood culture
- Specificity: 100% vs. blood culture
- Shelf life: 24 months
- Storage temperature: 2~30°C
- Packing size: 10 Tests/Kit
- CAT. No.: RB21-03

## Special Features

- Earlier detection of C. Brucella Ab than blood culture and 2-ME RSAT
- World's first & sole C.brucella Ab Rapid Test Kit
- One step testing procedure: Easy to use, Saving time and labor
- No additional equipment is required

### <Comparison Table of Anigen Rapid Test VS. 2-ME RSAT>

|                       | Anigen C.Brucella Ab Rapid Test         | 2-ME RSAT  | Anigen's benefit           |
|-----------------------|---|--|----------------------------|
| Principle             | Chromatographic Immunoassay             | Slide Agglutination Test   | Advanced                   |
| Specimen              | Whole blood, serum, plasma, available   | Serum  | All specimen are available |
| Reading Method        | Positive : 2 lines<br>Negative : 1 line | Eye observation may make difficulty to interpret the agglutination | Simple                     |
| Required testing time | 20 Minutes                              | Minimum one day due to acquiring of serum specime                  | Time saving                |

### Study I. Comparison Test of Anigen C. Brucella Ab test kit and 2-ME RSAT, Blood culture in the 742 specimens from kennels where C. Brucellosis

|  | No. of positive result |                   |                |
|--|------------------------|-------------------|----------------|
|  | 2-ME RSAT              | Anigen Rapid Test | Blood Culture  |
|  | 254/742(34.2%)         | 248/711(34.9%)    | 118/483(24.4%) |

### Study II. Comparison Test of Anigen C. brucella Ab test kit and 2-ME RSAT, Blood culture in challenge-infected dogs.

| Post challenge /weeks | Blood Culture |   |   | 2-ME RSAT     |     |   | Anigen in whole blood |   |     | Anigen in serum |    |     |
|-----------------------|---------------|---|---|---------------|-----|---|-----------------------|---|-----|-----------------|----|-----|
|                       | Patient's No. |   |   | Patient's No. |     |   | Patient's No.         |   |     | Patient's No.   |    |     |
|                       | 1             | 2 | 3 | 1             | 2   | 3 | 1                     | 2 | 3   | 1               | 2  | 3   |
| 4th day               | -             | - | - | -             | -   | - | -                     | - | -   | -               | -  | -   |
| 1st week              | +             | - | - | -             | -   | - | -                     | - | -   | -               | -  | -   |
| 2nd week              | +             | - | - | -             | -   | - | +                     | - | -   | +               | -  | +   |
| 3rd week              | +             | - | - | +++           | -   | - | +++                   | - | ++  | +++             | +  | +   |
| 4th week              | +             | - | + | +++           | -   | - | +++                   | - | +   | +++             | +  | +   |
| 5th week              | +             | + | + | +++           | -   | + | +++                   | - | ++  | +++             | +  | +++ |
| 6th week              | +             | + | + | +++           | +   | + | +++                   | - | ++  | +++             | +  | +++ |
| 7th week              | +             | + | + | +++           | ++  | + | +++                   | + | +++ | +++             | +  | +++ |
| 8th week              | +             | + | - | +++           | +++ | + | +++                   | + | +++ | +++             | ++ | ++  |

## Test Procedures

