VDRG® Bovine Brucella Ab Rapid kit

CAT. NO. PB-BRU-11

GENERAL DESCRIPTION

VDRG® Bovine Brucella Ab Rapid kit is a chromatographic immunoassay for the detection of Bovine brucella antibodies in bovine serum, plasma, or whole blood.
This is a diagnostic kit to detect brucella antibody by bovine serum, plasma, or whole blood followed by putting them into the sample hole. If there are brucella antibody in the specimen, these antibody bind to brucella specific antibody-gold particle conjugates and move on the membrane by capillary forces, and then shows a red line on the test line due to the binding with brucella antigen which are already applied on the membrane. This test kit, the diagnostic reagent can detect brucella antibody quickly and simply within 10 minutes after injection of samples.

KIT COMPONENTS

Reagents	10 tests/kit
① Bovine Brucella Ab Rapid Test Device	10 tests
② Sample Dilution Buffer bottle (4ml)	1 bottle
③ Capillary tube	10 ea
④ Instruction Manual	1 copy

DEVICE APPEARANCE

1. In a test device : There is the sample drip part on the lower plastic cassette for sample dropping. The location of the test (T) and control (C) lines are marked on the rectangle display. The sample pad, feces separation pad, conjugate pad, nitrocellulose membrane, and absorption pad are attached to the test strip with them overlapped one after another.

2. Assay dilution bottle : There is a transparent and colorless liquid buffer in the plastic bottle.

SAMPLE PREPARATION

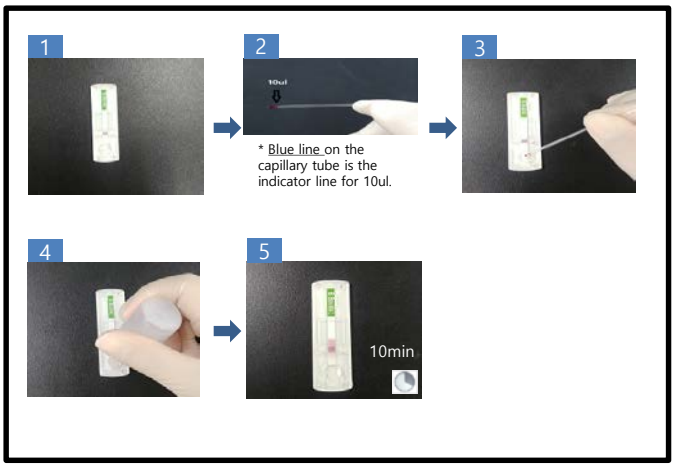
1. Whole blood : Collect on anti-coagulated blood sample in EDTA, heparin for citrate using standard clinical laboratory procedures. Anti-coagulated whole blood samples should be tested within 24 hours of drawing. If delays are expected between samples should be stored either on ice or refrigerated(2~8℃), but should not be frozen. If anti-coagulated whole blood samples cannot be tested within this period of time, separate plasma by centrifugation and store as described in the next section.

2. Plasma : Collect an anti-coagulated blood sample using standard clinical laboratory procedures. Separate plasma by centrifugation. Plasma samples may be stored refrigerated (2~8℃) for up to 72hours; for longer storage, freeze at or below -20℃ in vials with air-tight seals.

3. Collect and prepare serum samples using standard clinical laboratory procedures. Serum samples may be stored refrigerated (2~8℃) for up to 72 hours; for longer storage, freeze at or below -20℃ in vials with air-tight seals.

TEST PROCEDURE

1. Remove the test device from the foil pouch, and place it on a flat and dry surface.
2. Take 10 ul of serum, plasma, or whole blood to the dark score line of a capillary tube.
3. Add 10 ul of serum, plasma, or whole blood to the sample hole.
4. Add 4 drops (approximately 100ul) of the assay diluents.
5. Interpret test results at 10 minutes



Research use only

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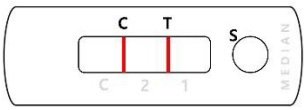
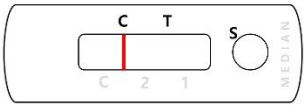
INTERPRETATION OF RESULT

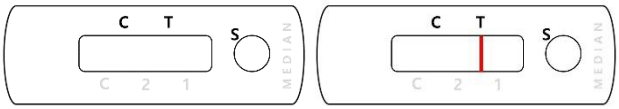
1. Positive : When there are both control line and test line.



2. Negative : When there is a control line but no test line.



3. Re-test : When there is a test line but no control line, or there are no control line and test line.



* Regardless of bovine brucella antibodies presence, a control line should always appear. The control line is needed to check whether abnormal reaction occurs or not, so if there is no control line, re-test should be performed.

PRECAUTIONS

1. For *in-vitro* animal diagnostic use only.
2. Read this instruction manual thoroughly and follow all steps strictly for successful use of the product.
3. Extended exposure of this Rapid Test Device to moisture may decrease test performance. Therefore, open the device right before use (<10 minutes).
4. Make sure to use a separate test tube, dropper, and cotton swab for each sample.
5. Do not touch the membrane in the device. The results may be affected if touched.
6. Do not use test device and reagents after expiration date.
7. Wear personal protective equipment (PPE) such as lab coat, goggle, and disposable gloves while performing the assay. Wash hands thoroughly afterwards.
8. All test samples should be considered potentially infectious and all items contacting the samples should be considered contaminated.
9. After use, all wastes should be sterilized with high-pressure steam at 121 degrees Celsius for ≥15 minutes or comparable methods.
10. This Rapid Kit is considered as a preliminary test. The result should be confirmed by other laboratory tests for confirmatory diagnosis.

STORAGE AND STABILITY

Store all reagents at 2~30℃. Do not freeze. Reagents remain stable through the expiration date when stored as instructed.

MEDIAN Diagnostics Inc.
878, Sunhwan-daero, Dongnae-myeon, Chuncheon-si, Gangwon-do, 24399, Republic of Korea
Tel: +82 (0)33 244 0100
Fax: +82 (0)33 244 4634
E-mail: median@mediandx.com

TEST METHOD SUMMARY