



Rapid Brucella-TB/ FMD Combo Testing

- Quick results available in just a few minutes.
- Require no instrumentation.
- Easy to use.
- Allows decentralized implementation (do not require serum transport).
- No capital expenditure.
- Able to execute the test and read result in the field itself.
- Do not require refrigerated storage.
- **Differentiates between vaccinated and infected animals.**

The only diagnostic technique available today that satisfies these requirements for Brucella-TB/ FMD Combo diagnosis is the quickVET Brucella-TB/ FMD Combo Non-structural-protein (NSP) rapid lateral flow assay.



One step Rapid Immuno-chromatographic test for the detection of *Brucella abortus*, *Mycobacterium tuberculosis* & Foot and Mouth Disease Non Structural protein 3ABC Antibodies in whole blood/plasma/serum of Bovines.

quickVET Bovine Brucella-TB/FMD Antibody Combo Test is a qualitative immunochromatographic assay for the detection of *Brucella abortus*, *Mycobacterium TB* and FMD antibodies in Bovine whole blood, plasma or serum.

Bovine Tuberculosis is a chronic bacterial disease of animals and humans caused by *Mycobacterium bovis*. In a large number of countries bovine tuberculosis is a major infectious disease among cattle, other domesticated animals, and certain wildlife populations. Transmission to humans constitutes a public health problem. Aerosol exposure to *M. bovis* is considered to be the most frequent route of infection of cattle, but infection by ingestion of contaminated material also occurs. After infection, nonvascular nodular granulomas known as tubercles may develop.

Bovine Brucellosis, caused by the bacterium *Brucella abortus*, is an economically important cause of abortions in cattle. *B. abortus* also affects other species including bison, buffalo and elk; some species are maintenance hosts for this organism. Infections in wildlife can hinder eradication efforts in cattle. In addition, *B. abortus* is a human pathogen. In humans, brucellosis can be a serious, debilitating and sometimes chronic disease that may affect a variety of organs. Most cases are the result of occupational exposure to infected animals, but infections can also occur from ingesting contaminated dairy products. In addition, *B. abortus* could be used in a bioterrorist attack.

Mycobacterium bovis antigens, FMD NSP antigen and native *Brucella abortus* LPS antigens to capture the antibody developed during infection. The captured IgG's are detected using colloidal gold conjugated detection antibody.

Foot and Mouth Disease (FMD) is a highly contagious and fatal viral disease which affects cloven-hoofed animal. It can be spread by saliva, mucous, milk, faeces and can be carried on wool, hair, grass, footwear, clothing, livestock equipment and vehicle tyres.

The incubation period for foot-and-mouth disease virus has a range between 2 and 12 days. The disease is fever that declines rapidly after two or three days, blisters inside the mouth that lead to excessive secretion of stringy or foamy saliva and to drooling, and blisters on the feet that may rupture and cause lameness.

Assay Overview and Usage

Organism detected	Brucella, Mycobacterium TB and FMD antibodies
Sample type	Whole blood, serum, plasma
Shelf Life	24 months
Storage	2-30 °C
Capture Antigens	Recombinant 3ABC Antigen
Sensitivity	97.4%
Specificity	98.8%
Species	Bovine, Ovine, Caprine, Swine
Packing	1T, 10T, 25T
Ref. No	Q046-01



Positive



Negative



Invalid

Test Interpretation



Blood collection by ear prick
No need for Jugular Bleeding!!!!

Collect 10µl sample

drop to test cassette

2 drops of Buffer