BTB Ab ELISA 2.0

Mycobacterium bovis antibody

Bovine tuberculosis is a chronic infectious disease caused by Mycobacterium bovis. Bovine tuberculosis infection is usually diagnosed in the live animal on the basis of delayed hypersensitivity reactions. Subclinical infection is common and clinical signs are non-specific in many cases. A sensitive and accurate diagnostic tool is required because purified protein derivative (PPD) tests have been known to have 65.6% sensitivity (Wood et al.,Vet. Microbiol, 40:125-135. 1994) and other mycobacterium infection (eg; M.avium) should be distinguished with this method. The MPB 70 protein has been revealed to be a highly species specific protein secreted by Mycobacterium bovis. Anigen BTB Ab ELISA 2.0 test kit has been developed using MPB70 protein in an Enzyme Linked Immunosorbent Assay method. The serological diagnostic test is suitable for massive screening of bovine tuberculosis to detect mid to late (anergy) state cattle.



Indications

- Search out BTB carrier
- Screening for test and slaughter government policy
- First step for massive screening instead of PPD in short-handed situation
- Combine with PPD or IFN-γ assay in eradication system

Special Features

- No cross reaction against other mycobacterium species (M. avium)
- Quantitative detection of M. bovis antibody
- The world's first reliable BTB Ab ELISA for serological diagnosis
- Reading time: 75 minutes
- Specimen: Serum
- Sensitivity: 88.1% vs. PPD test
- Specificity: 99.2% vs. PPD test

Quick Procedure

- 1. Prepare BTB antigen coated test plate
- 2. Add 50μ of controls and sample to wells
- 3. Add 50μ of M. bovis antigen-HRP to each well
- 4. Incubate plate for 60 minutes at 37° C
- 5. Wash plate 6 times
- 6. Add 100μ of mixed substrate solution (Ready to use) to each well and incubate for 15 minutes at room temperature
- 7. Add 100μ of stopping solution to each well
- 8. Measure the optical density (OD) at 450 nm with reference wavelength at 620nm
- 9. S/P value=[OD sample-mean OD negative)] / [mean OD positive mean OD negative] x 100

Immune development of bovine tuberculosis



AniGen BTB Ab ELISA 2.0 detects mid to late (anergy) stage of TB affected cattle by antibody titer check againt TB (Laboratory method for antibody check)

Generally, M.bovis Ab is detectable 90 to 100 days after infection

Ordering Information

Cat. No.	Description	Туре	Packing size
EB4304PO	BTB Ab ELISA 2.0	Microplate	480 Wells/Kit