

# TB ★ FPA

Product #  
T1001



**DETECT ANERGIC ANIMALS**

The TB FPA is a qualitative test that uses fluorescence polarization technology to determine the presence of antibodies against *Mycobacterium bovis* in bovine serum. The diagnostic test uses a fluorescein-labeled peptide with the same amino acid sequence as an epitope region of the *Mycobacterium bovis* bacterium MPB70 protein. TB FPA testing is performed two weeks after tuberculin testing for best results.

## QUICK AND EASY ASSAY

The TB FPA is a homogeneous, liquid-phase assay that requires no washing steps. Using portable fluorescence polarization instruments, the test can be performed in the lab or the field.

## FIELD & HIGH THROUGHPUT LABORATORY ASSAY

**T1001****Mycobacterium Bovis Antibody Test Kit, FPA**

Trade Name	TB FPA
Technology	Fluorescence Polarization Assay (FPA)
Antigen	<i>Fluorescein-labeled peptide containing the MPB70 protein sequence</i>
Analyte	Ig all classes
Species	Bovine
Samples	Serum
Description	The diagnostic test uses a fluorescein-labeled peptide with the same amino acid sequence as an epitope region of the <i>Mycobacterium bovis</i> bacterium MPB70 protein. The sequence is conserved throughout the <i>Mycobacterium tuberculosis</i> complex. The test is designed to detect anergic animals.

**Specificity**

To determine the specificity of the assay, 453 animals originating from Serbia, which is considered free of bovine TB, were tested, and all (100%) were negative for TB.

**Detection of anergic animals**

Antibody tests for TB are designed to detect anergic animals that do not react in gamma interferon release assays or in skin probes. To determine the TB FPA's ability to detect anergic animals, we tested 100 animals from a farm that was confirmed to have TB and had not started an eradication program. Of the 100 animals tested, three displayed positive results with the TB FPA but not with gamma interferon or skin tests. All three animals were slaughtered and showed gross lesions and advanced disease. Overwhelming TB lesions had shut down cellular immunity; therefore, the only viable method of detection was an antibody test.

**Instruments**

To read the reaction, you will need an FP instrument. The Sentry 300 instrument is a portable, battery-powered field instrument that reads one tube at a time. The Sentry MPX is a high-throughput laboratory microplate reader. **Instruments are available on loan or purchase depending on your needs.**



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