



## BOVIGAM 2G TB Kit

Make use of the reliable quality of the BOVIGAM test, but take advantage of **M.O.R.E.** benefits with the BOVIGAM 2G kit for versatile and effective detection of bovine tuberculosis

### Benefits

With the Applied Biosystems™ BOVIGAM™ 2G TB Kit, you get the reliable quality of Applied Biosystems™ BOVIGAM™ assays, including:

- Ability to use with a panel of peptide stimulants for increased flexibility
- Fast diagnosis, enabling improved herd management and helping to reduce duration of farm closures
- Optimal analytical sensitivity
- Objective and highly reproducible results
- Applied successfully since 1991
- Cost-effectiveness—only one vet visit is necessary

### M.O.R.E. benefits of the BOVIGAM 2G kit

- **More robust**, with improved repeatability around cutoff
  - Results are read in an ELISA format, eliminating subjective reading. The *in vitro* test does not interfere with the animals' immunological status. The BOVIGAM 2G kit is designed to produce highly reproducible results with an intra-plate variation of less than 5%, which is especially important for borderline samples.
- **One-component substrate**
  - A convenient one-component substrate enables easy handling of the detection step and faster test results.

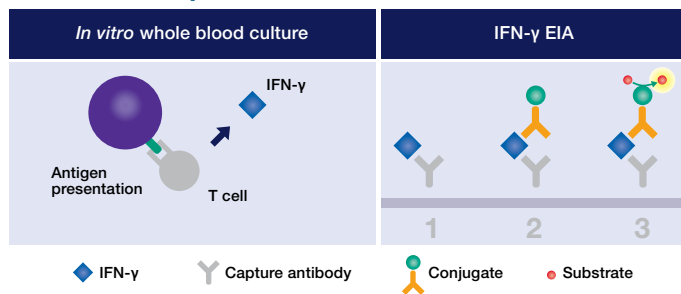
- **Reduced costs per animal**, due to flexible test capacity
  - Samples can be tested in either single or double wells, which enables considerable cost savings.
- **Easy to use**, due to streamlined protocol
  - The BOVIGAM 2G kit uses fewer components and enables faster results through reduction in the number of wash steps.

### BOVIGAM 2G

The BOVIGAM 2G test is a blood-based assay of cell-mediated immunity. Blood samples are incubated with tuberculin antigen to stimulate the lymphocytes to produce the cytokine interferon gamma (IFN- $\gamma$ ). Lymphocytes from infected cattle produce IFN- $\gamma$  upon exposure to tuberculin antigens, whereas uninfected animals do not, so IFN- $\gamma$  detection correlates with infection. *Mycobacterium bovis* (*M. bovis*) is thus identified by measurement of IFN- $\gamma$  in an enzyme immunoassay (EIA).

BOVIGAM products are widely used as stand-alone or ancillary tests to the skin test. Various studies describe the effective use of the IFN- $\gamma$  test with the skin test in TB eradication programs, and many countries use the kit for the detection of *M. bovis*-infected cattle, sheep, and goats.

## BOVIGAM 2G procedure



The BOVIGAM 2G kit is the only blood-based assay of cell-mediated immunity on the market that has been validated together with tuberculin purified protein derivatives (PPDs) and a panel of peptide stimulants. The combined use of these different peptide stimulants with tuberculin PPDs allows adjustment of the application of the test to specific bTB situations.

Tuberculin PPDs in combination with BOVIGAM assays offer high sensitivity, the Applied Biosystems™ BOVIGAM™ PC-EC Stimulation Antigen peptide cocktail offers high specificity, and the BOVIGAM PC-HP Stimulation Antigen peptide cocktail combines high sensitivity with high specificity.

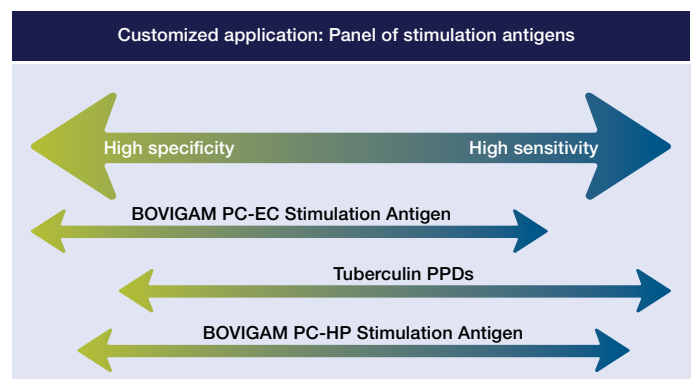
Combinations of BOVIGAM assays and stimulation antigens can help optimize every local bTB program.

## Bovine tuberculosis (bTB)

bTB is a major infectious disease among cattle, other farm animals, and certain wildlife populations. It results from infection with *M. bovis* and can be transmitted by either respiration or ingestion.

bTB is a chronic disease and it usually takes many months for clinical signs to develop. Therefore, early infections are often asymptomatic, whereas in the later stages, symptoms include progressive emaciation, weakness, inappetence, and enlargement of lymph nodes.

bTB is a significant zoonosis that can spread to humans through aerosols and by consumption of unpasteurized milk or dairy products from infected cows.



## Ordering information

Product	Quantity	Cat. No.
BOVIGAM 2G TB Kit	10-plate kit (300 samples)	63330
<b>Related products</b>		
BOVIGAM TB Kit	10-plate kit (150 samples)	63320
BOVIGAM TB Kit	30-plate kit (450 samples)	63326
VetMAX™ <i>M. tuberculosis</i> Complex Real-Time PCR Kit	100 tests	MTBC
<b>Stimulation antigens</b>		
<b>BOVIGAM Tuberculin PPD</b>		
Bovine Tuberculin PPD 3000	5 mL; 30,000 IU/mL	7600060
Avian Tuberculin PPD 2500	5 mL; 25,000 IU/mL	7600065
<b>Peptide cocktails</b>		
BOVIGAM PC-EC Stimulation Antigen	3 mL (lyophilized); 120 samples	7600100
BOVIGAM PC-HP Stimulation Antigen	3 mL (lyophilized); 120 samples	7600105
<b>Stimulation control</b>		
BOVIGAM Pokeweed Mitogen (PWM)	1 vial; 3.2 mg	5108777

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