



#38P-19 Immunoassay for diagnosis and prevention of *Brucella melitensis*

Brucellosis produced by *Brucella melitensis* is a chronic infectious contagious disease; natural hosts are ovine and caprine cattle.

This disease may affect numerous animal species, including humans, causing undulant fever or Malta fever.

The disease is extensively disseminated worldwide. It is endemic in all European countries, African countries of the Mediterranean basin, countries of the Middle East, and Latin America, among others.

Hence, the INTA Pathobiology Institute has developed monoclonal antibodies enabling the specific detection of this pathogen. On the other hand, with this antibody they developed a competitive ELISA method for detection of caprine Brucellosis that determines the prevalence and control of the disease in herds.

ADVANTAGES:

- High-sensitivity and specificity
- Diagnostic flexibility in different animal species
- National development with industrial scaling feasibility and global scope

TECHNOLOGY READINESS LEVEL: EARLY. Laboratory-scale product prototype. Functionality tests on infected animals completed. Technology available for field validation and requires investment for scaling and marketing.

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