#17P-18 ELISA for detection of bovine serum antibodies against *Leptospira spp*. Bovine leptospirosis cases range from unapparent symptoms to severe reproductive

Bovine leptospirosis cases range from unapparent symptoms to severe reproductive consequences such as abortions in beef cattle herds and mastitis in dairy cattle herds.

The Microscopic Agglutination Test (MAT) is the reference test method for serodiagnosis. This technique requires an experienced operator and time to obtain the result.

Fast and specific diagnosis is vital in order to reduce and curb infection spread and cut down on economic losses. The INTA Pathobiology Institute developed an **immunoassay that allows detection of serum anti-Leptospira spp. antibodies.** The method enables to detect the infection and holds great potential as a screening assay for bovine leptospirosis.

ADVANTAGES:

- Differential bovine serodiagnosis.
- Sensitive and specific method.
- Easy to execute, interpret and implement in low-complexity laboratories.

TECHNOLOGY READINESS LEVEL:

ELISA for in vitro detection of anti-Leptospira spp. IgG antibodies in bovine serum, developed in the laboratory with proven efficiency. Field test assays, scaling and marketing are required.

INTELLECTUAL PROPERTY RIGHTS STATUS: Qualifies for trade secrecy protection.

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