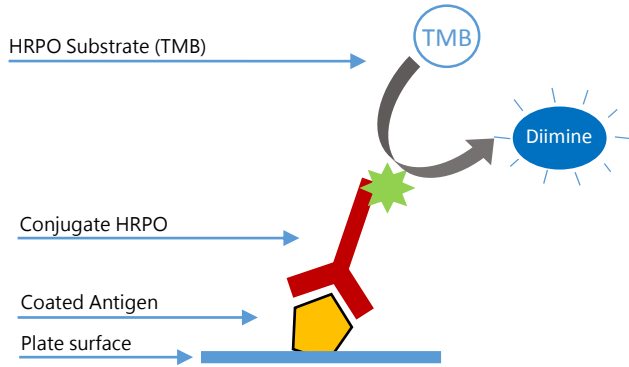


INGENASA

INgezim BRUCELLA Compac 2.0

R.10.BRU.K3

INgezim BRUCELLA COMPAC 2.0 is a multispecies enzymatic assay based on a blocking ELISA technique, which uses a monoclonal antibody (MAb) specific to the epitope C of LPS of Brucella.



TECHNICAL BASIS OF THE KIT

1. Plates are coated with LPS of *Brucella abortus*. Serum samples are added and incubated.
2. If the samples contain specific antibodies to Brucella they will bind to the antigen.
3. When a MAb-PO specific of LPS is added, only if there are no antibodies in the sample blocking the antigen (negative animals), it will bind to the protein. In case the sample contains antibodies blocking the antigen (infected animals), the conjugate will not be able to bind to it. The binding is detected by the development of a colorimetric reaction after the addition of the substrate.

APPLICATION

Detection of specific antibodies to LPS of *Brucella* ssp. in bovine, ovine, caprine and porcine sera samples.

INTERPRETATION OF THE RESULTS

A Cut off regarding **inhibition percentage (IP)** is established. Samples will be considered **Positive** if their IP value is equal to or higher than the cut off. Samples will be considered **Negative** if their IP value is lower than the cut off.

ANALYTICAL SENSITIVITY

The assay fulfils the OIE requirements and the European Directives regarding the International Reference Sera.

DIAGNOSTIC SENSITIVITY

- 252 sera (74 bovine, 66 ovine, 46 caprine and 66 porcine), positive by cell culture, were analyzed.
- 184 sera, positive by other techniques (124 bovine, 24 ovine, 22 caprine, 14 porcine).

The diagnostic sensitivity was 98% for cattle and 99% for sheep, goats and swine.

References: García-Bocanegra et al. Vet. Evaluation of different enzyme-linked immunosorbent assays for the diagnosis of brucellosis due to *Brucella melitensis* in sheep J. 2014 Mar; 199(3):439-45.

ANALYTICAL SPECIFICITY

100% using negative reference sera, 97% analyzing animals infected with *Yersinia enterocolitica* and 95.4% for RB51 positive culture aborted animals.

DIAGNOSTIC SPECIFICITY

- 5278 sera (2817 bovine, 810 ovine, 719 caprine and 932 porcine) from Brucella free herds were analyzed. The diagnostic specificity was 99.9%.
- 197 sera (bovine, caprine, ovine and porcine) culture negative were analyzed. The diagnostic specificity was 99.9%.

COMPOSITION OF THE KIT

- Microtitration plates of 96 wells
- Vials with Positive Control
- Vials with Negative Control
- Vials with Peroxidase Conjugate
- Bottle with Washing Solution
- Bottle with diluent
- Bottle with stop solution
- Bottle with substrate (TMB) ready to use



REGISTRATION NUMBER 1642 RD
 PRODUCT MANUFACTURED BY INGENASA



SHELF LIFE: 15 months
 Stored at 2-8°C