

BRUCELLA ANTIGEN FOR COMPLEMENT FIXATION TEST

The antigen for the complement fixation test is a suspension of *Brucella abortus* biovar 1 Weybridge strain No 99, inactivated by heat and phenol.

This reagent is used for the detection of antibodies against *Brucella abortus*, *melitensis* and *suis* in ruminant, equidae, suidae, camelids, domestic and wild carnivores. The technique used is the complement fixation test according to the OIE Terrestrial Manual (version adopted in May 2022, Chapter 3.1.4 – *Brucellosis (infection with Brucella abortus, B. melitensis and B. suis)*).

It is calibrated to give 50% haemolysis with the second international standard serum (OIESS) diluted 1/200.

1. Principle

The technique used is Kolmer type with cold complement fixation.

2. Reagents provided

- *Brucella* antigen concentrated 100X

3. Reagents not provided

- Buffer for the complement fixation test (Innovative Diagnostics reference: CFTB-4L) or other alternative buffer validated by the OIE.
- Freeze-dried complement (Innovative Diagnostics reference: CPLT-2x5ml)
- Positive control serum
- Negative control serum
- Sheep Red Blood Cells (SRBCs, 50%)
- Haemolytic serum titrated
- Samples to be tested

4. Testing procedure

For the protocol, refer to the OIE Terrestrial Manual (Chapter 3.1.4 – *Brucellosis (infection with Brucella abortus, B. melitensis and B. suis)*)

5. Storage conditions and elimination of samples

The laboratory must put in place provisions to ensure the conditions of storage of samples.

Samples received at the laboratory must be stored at $5^{\circ}\text{C} \pm 3^{\circ}\text{C}$ after obtaining the serum exudates. It is recommended that blood samples be centrifuged and stored, if possible without blood clots. For longer storage, it is recommended to freeze the sera without blood clots at $\leq -16^{\circ}\text{C}$.

The inactivation and physical elimination of samples must be carried out according to the regulations in effect.

AG-BRU ver 0512 EN