

Brucella OPS iELISA

Product #
B1110



THE WORLD'S MOST VERSATILE ELISA KIT FOR CATTLE BRUCELLOSIS

The Ellie's **BRUCELLA OPS iELISA** is a qualitative test kit based on indirect ELISA technology. Plates are coated with *B. abortus* O-chain polysaccharide (OPS), which is the same antigen used in the Brucella FPA (product code B1001).

THE FIRST ELISA THAT USES THE SAME ANTIGEN AS FPA

Antibodies against OPS are indicative of a recent or current infection with a smooth Brucella biovar.

RUNS INDIVIDUAL OR POOLED SERUM SAMPLES & INDIVIDUAL OR BULK MILK SAMPLES

This test can be used to monitor bulk milk antibody levels, for export/import purposes, for confirmatory testing or screening in vaccinated and non-vaccinated areas. It can also supplement the Brucella FPA in mass testing campaigns.

The Brucella OPS iELISA is a robust, versatile, highly sensitive, and highly specific test. It complements Brucella FPA by adding bulk milk testing and high sensitivity in testing animals in negative population.

| B1110 | | Brucella Antibody Test Kit, iELISA OPS |
|-------------|---|--|
| Trade Name | Brucella OPS iELISA | |
| Technology | Indirect ELISA | |
| Antigen | <i>B. abortus</i> & <i>B. melitensis</i> O-chain polysaccharide | |
| Analyte | IgG | |
| Species | Bovine | |
| Samples | Individual or pooled serum & individual or pooled milk | |
| Description | This test uses the same antigen as the Brucella FPA. Titers on OPS iELISA display a relative correlation to FPA results. This test is fully compliant with all applicable EU regulations (EU Council Directive 64/432/EEC, Annex C). It is recommended for eradication and control purposes, especially when milk samples are used. | |

| Samples | Sensitivity | Specificity | Reference method |
|---|-------------|-------------|---------------------|
| Negative serum samples n=1454 Samples originated from several small farms across Serbia. | n.a. | 99,6% | RBT, iELISA, cELISA |
| Positive serum samples n=204 Samples originated from the USDA/NVSL Serum Bank (United States of America). All were confirmed with culture. | 100%. | n.a. | culture, CFT |
| Negative individual milk samples n=127 Samples originated from several small farms across Serbia (n=46) and dairy farms around Torreon, Mexico. | n.a. | 99,2% | iELISA |
| Negative bulk milk samples n=189 Samples originated from single dairy processor in Serbia (n=46). | n.a. | 100% | iELISA |
| Serum RB51 vaccinated animals n=20 Serum samples originated from the Larissa region in Greece and were provided by the National Reference Laboratory. No prior cases of field brucellosis had been reported in the herd. It is important to note that 40% of these samples were positive on some iELISA test kits and on the Rose Bengal test. They were negative on ELLIE OPS iELISA kit. | n.a. | 100% | CFT, FPA |

| Standard | Sample Type | Dilution | Detection |
|--------------|----------------------|-----------------|-----------|
| OIEELISAspSS | Individual serum | 1:16 | Positive |
| OIEELISAspSS | Individual serum | 1:64 | Negative |
| OIEELISAspSS | Pooled serum samples | 1:16 than 1:5 | Positive |
| OIEELISAspSS | Pooled serum samples | 1:64 than 1:5 | Negative |
| OIEELISAspSS | Pooled milk samples | 1:125 than 1:10 | Positive |
| OIEELISAnSS | Pooled milk samples | 1:10 | Negative |

ellie is the most trusted name in brucellosis diagnostics worldwide. With a full portfolio of test kits and reagents, we cover the entire field of brucellosis eradication in production animals. Our diagnostics are used as reference, confirmatory, and screening tools across the globe.

ellie

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