Today’s ELISA test kits provide simple, accurate brucellosis detection

The IDEXX CHEKIT* Brucellose Serum Antibody Test Kit is an enzyme-linked immunoassay for the detection of antibodies against *Brucella abortus* and *Brucella melitensis* in individual and pooled serum and plasma samples.

Brucellosis–also known as contagious abortion–poses significant economic risks through reproductive and productivity losses, and is an important health concern for farmers, veterinarians and consumers. Brucellosis in cattle is usually caused by the bacteria *Brucella abortus*. The biovar *B. melitensis* primarily infects small ruminants.

The major clinical feature is abortion, other manifestations include retained placenta, orchitis, infertility, reduced milk production and arthropathy. This facultative, intracellular bacterium transmits primarily through uterine discharge, fetal membranes, semen and milk. Brucellosis is readily transmittable to humans as undulate or Malta fevers through contact with abraded skin, eyes or ingestion of unpasteurized dairy products, which poses hazards for production workers and veterinarians.

Infection with *B. abortus* can be determined through detection of antibodies in serum or plasma. The IDEXX CHEKIT Brucellose Serum Antibody kit provides:

- Excellent specificity
- 10 plates (strips) for large and small scale testing conditions
- Convenient 10 µl serum or plasma sample volume for individual or pool of up to 10 samples.
- Modern monophasic kit format—fast, reliable and simple, with ready-for-use reagents
- Short or overnight sample incubation options
- Adapted to automation—cuts time and costs with high sample throughput
- Can be used with xChek* software for easy data management

**Specificity**

![Specificity Graph](image)

**Conclusion:**

CHEKIT Brucellose Serum ELISA Test Kit demonstrated 100% specificity in 184 individual bovine serum samples from a brucellosis-free area in Germany.


**Results of CHEKIT Brucellose Serum in the European Brucellosis Ring Trial 2003**

National, OIE/FAO and European Community Reference Laboratory for Brucellosis, AFSSA, Maisons-Alfort, France

<table>
<thead>
<tr>
<th>Serum</th>
<th>Dilution</th>
<th>Expected Result</th>
<th>Value %</th>
<th>OD Pos. Control</th>
<th>OD Neg. Control</th>
<th>Interpretation</th>
</tr>
</thead>
<tbody>
<tr>
<td>OIEISS weak positive</td>
<td>1/2</td>
<td>++</td>
<td>109</td>
<td>0.9735</td>
<td>0.04</td>
<td>Pos.</td>
</tr>
<tr>
<td>OIEISS strong positive</td>
<td>1/6</td>
<td>+</td>
<td>106</td>
<td></td>
<td></td>
<td>Pos.</td>
</tr>
<tr>
<td>OIEISS strong positive</td>
<td>1/32</td>
<td>+/-</td>
<td>46</td>
<td></td>
<td></td>
<td>Neg.</td>
</tr>
<tr>
<td>OIEISS strong positive</td>
<td>1/64</td>
<td>–</td>
<td>55</td>
<td></td>
<td></td>
<td>Neg.</td>
</tr>
</tbody>
</table>

**Conclusion:**

CHEKIT Brucellose Serum ELISA accurately detected weak and strong positive OIE reference according to EU Directives.

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