The HerdChek* BSE-Scrapie Ag Test is the shortest BSE-Scrapie assay available—1.5 hours faster than other microtiter methods. It has all the same components as the trusted HerdChek* BSE Ag Test, with the addition of a small-ruminant conjugate. This convenient format allows for a streamlined sample flow in your laboratory.

We’ve further improved the test by reducing the sample and conjugate incubation times to as little as 25 minutes each. The ultra-short protocol means less time for the laboratory and more productivity.

Accurate Results

Sensitive and Specific

- 100% sensitivity and specificity for sheep and goats in sample populations tested
- Excellent separation between positive and negative populations
- Equivalent performance on routine and fallen stock populations

The ultra-short protocol has excellent correlation with the short protocol.

- 100% specificity and sensitivity for both formats in sample populations tested
- Negative population distributions and mean are similar between the two
- Excellent OD to cutoff correlation for the two protocols

Small Ruminant Brain Negative and Scrapie-Positive Samples

<table>
<thead>
<tr>
<th>Negative samples</th>
<th>Positive samples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean = 0.210 ± 10</td>
<td>n = 245</td>
</tr>
<tr>
<td>n = 1,000</td>
<td>SDs from cutoff = 12.5</td>
</tr>
</tbody>
</table>
HerdChek® BSE-Scrapie Ag Test

**EIA Procedure**

1. **Prepare Sample**
   - Collect, Homogenize, Dilute
     - Time varies depending on laboratory
     - Collect tissue, place it in a tissue-disruption tube and homogenize. Sample aliquot is mixed with diluent in the dilution plate.

2. **PrPSc Capture**
   - 45–60 Minutes (Short)
   - 20–25 Minutes (Ultra-Short)
   - With a plate shaker.
   - Dispense diluted sample into the antigen-capture plate. PrPSc is captured with the Seprion Ligand affinity.

3. **Conditioning Buffer Addition**
   - 9–11 Minutes
   - Wash the sample from the capture plate, add conditioning buffer and incubate. Addition of conditioner denatures the bound PrPSc, thus exposing the epitope recognized by the anti-PrP antibody.

4. **Conjugate Addition**
   - 45–60 Minutes (Short)
   - 25–30 Minutes (Ultra-Short)
   - Wash the conditioning buffer from the capture plate, add conjugate and incubate. An anti-PrP antibody conjugated to HRPO (horseradish peroxidase) recognizes and binds to the PrP protein.

5. **Substrate and Stop Addition**
   - 14–16 Minutes
   - Wash the conjugate from the capture plate, add substrate and incubate. The substrate changes to a blue color in the presence of a PrPSc-positive sample. Addition of acid stops this reaction, and changes the color to yellow.

6. **Interpretation**
   - 10 Minutes
   - Read the plate with the microtiter plate reader and interpret the results using the IDEXX xChek® software.

**Ultra-Short Protocol**

**Prepare Sample**

**EIA Procedure**

1. **PrPSc Capture**
   - 45–60 Minutes (Short)
   - 20–25 Minutes (Ultra-Short)
   - Dispense diluted sample into the antigen-capture plate. PrPSc is captured with the Seprion Ligand affinity.
   - With plate shaker.

3. **Conditioning Buffer Addition**
   - 9–11 Minutes
   - Wash the sample from the capture plate, add conditioning buffer and incubate. Addition of conditioner denatures the bound PrPSc, thus exposing the epitope recognized by the anti-PrP antibody.

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   - 25–30 Minutes (Ultra-Short)
   - Wash the conditioning buffer from the capture plate, add conjugate and incubate. An anti-PrP antibody conjugated to HRPO (horseradish peroxidase) recognizes and binds to the PrP protein.

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6. **Interpretation**
   - 10 Minutes
   - Read the plate with the microtiter plate reader and interpret the results using the IDEXX xChek® software.

**High Throughput**

The HerdChek BSE Ag and BSE-Scrapie Ag Tests offer you the only fully automated and traceable protocol. The tests eliminate the need for complicated sample preparation, making it very easy to process a large number of samples in either an automated or manual format.

Most of the individual components are ready to use and disposables are provided, complete with dilution plates, a sample collection device, tissue-disruption tubes and extended-length tips.

For those who prefer automation, a single robotic instrument can perform the entire assay from sample homogenate to the final test result.
Save up to 1.5 hours on plate processing and help increase your laboratory’s productivity.

**Reliable Performance**
- Excellent sensitivity and specificity for BSE and scrapie
- Approved for brain, lymph node and spleen tissue testing
- Approved for atypical scrapie detection
- Approved for BSE testing in cattle, sheep and goats

**Simple Processing**
Easy sample preparation—homogenize tissue and prepare to run the assay
- NO complex proteinase K steps
- NO additional sample preparation kit necessary
- Excellent traceability due to limited handling

**Easy EIA test**—add diluted homogenate to the capture plate and run
- Simple homogenate transfer
- Runs as typical ELISA
- Room temperature for all steps (except for ultra-short protocol)

**Streamlined Operations**
- Fully automated and traceable
- NO extra equipment required (PK robots, centrifuge, etc.)
- Less laboratory space required
- Fewer disposables and less waste

**Trusted IDEXX Technology**
- Accepted worldwide
- Uses the proven IDEXX ELISA platform customers trust and prefer
- Outstanding customer and technical service

For more information about the HerdChek BSE-Scrapie Ag Test, please contact your IDEXX representative or visit idexx.com/bse.