



PRIONICS AG

WAGISTRASSE 27A
CH-8952 SCHLIEREN
SWITZERLAND

PHONE +41 44 200 20 00
FAX +41 44 200 20 10

INFO@PRIONICS.CH
WWW.PRIONICS.CH



PRIONICS®-CHECK WESTERN.

RELY ON PRIONICS®-CHECK

Prion diseases are a class of deadly neurological disorders. All transmissible spongiform encephalopathies (TSEs), including CJD in humans, BSE in cattle, scrapie in sheep and CWD in deer and elk, are associated with the accumulation of disease-specific prion protein (PrP^{Sc}).

PrP^{Sc} is a misfolded protein that induces normal prion proteins (PrP^C) to mimic its distorted shape, resulting in a build-up of sponge-like holes in the brain. This severe damage to the brain inevitably leads to death.

Prionics, a leading Swiss biotechnology company, specializes in neuroscience. It started as a spin-off from a research laboratory at the University of Zurich. Prionics continues to maintain close relationships with academic institutions and research groups, ensuring its cutting edge position as an international competence centre for prion diagnostics.

For information on our global distribution network, visit our website WWW.PRIONICS.CH

E-mail us at info@prionics.ch
or telephone us on **+41 44 200 20 00**

Completely reliable: PRIONICS®-CHECK WESTERN



TSE DIAGNOSTICS – SIMPLY APPLIED
OVER TEN MILLION TIMES WORLD-WIDE:
NO FALSE POSITIVE RESULTS.

PRIONICS®-CHECK WESTERN. RELY ON PRIONICS®-CHECK

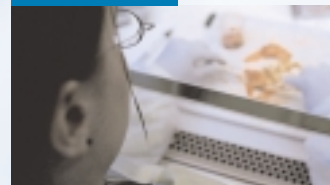
- _No false positives
- _Unambiguous results
- _Extremely sensitive and robust
- _Rapid and convenient sample preparation
- _Efficient procedure adapted for large numbers of samples

**USED OVER
10 MILLION
TIMES**



One person can process 100 samples (duplicate assays) within 6.5 hours. The Prionics®-Check WESTERN process allows staggered testing of batches of samples and can be very efficiently and easily scaled-up. Several thousands of samples are routinely processed per day in numerous European diagnostic laboratories.

SAMPLE PREPARATION



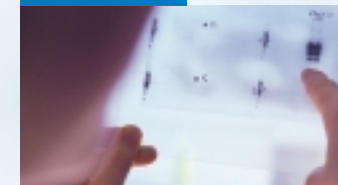
The Prionics®-Check sample preparation procedure, which uses automated homogenization of tissue, is rapid and convenient.

IMMUNOLOGICAL DETECTION



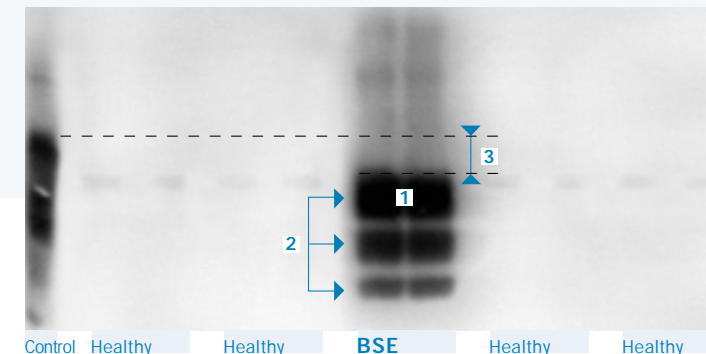
The Prionics®-Check WESTERN is an efficient method for the analysis of large numbers of samples, based on the Western blot procedure. Disease-specific PrP^{Sc} is bound with high sensitivity and detected in a chemical reaction that emits light.

RESULT



The emitted light can be conveniently recorded either on a film, or stored as a digital file. The result is clear-cut: infected animals can be unambiguously identified based on three independent and easily interpretable criteria (see below).

UNAMBIGUOUS RESULT BASED ON THREE INDEPENDENT AND EASILY INTERPRETABLE CRITERIA



The test uses the relative protease resistance of the disease-specific prion protein PrP^{Sc} for TSE detection. Protease digestion leads to a small decrease in PrP^{Sc} protein size, whereas the normal protein PrP^C is completely degraded.

- 1 Signal (PrP^{Sc})
 - 2 Characteristic three-band pattern
 - 3 Position relative to control (PrP^C)
- BSE positive**