Prion Protein Extraction in Animal Tissues URI282 - Animal Infectiology and Public Health National Institute of Agronomic Research of Nouzilly

CONTEXT

In TSE, the preparation of animal tissues is an important step for the detection of the pathological prion protein. Brain and spinal (tonsils, cord tissues, lymphoid tissues lymph nodes, spleen...) are frozen at -80℃ The samples are suspended in a buffer, and protein extraction is followed by ELISA analysis and Western Blot Analysis.

MATERIAL

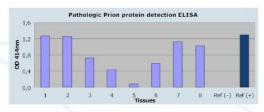
- Precellys®24
- Precellys® kit CK14 (small ceramic beads)
- Sample : 50 150 mg of brain and lymphoid tissues
- Buffer : glucose 5% (500 1500μl) added after grinding

PROTOCOL

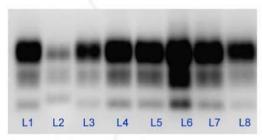
Precellys®24 parameters: Brain tissues 6500rpm, 2x30 sec.,15 sec. break
- Lymphoid tissues:
6500rpm, 3x30 sec., 20 sec. break
- Prion protein and Western Blot ELISA analysis and Western Blot

RESULTS

After prion protein extraction, the pathologic protein is detected and quantified by using specific antibodies through an ELISA test, and the pattern of the glycozylated protein is analyzed by Western Blot.



ELISA analysis



Lanes 4-6: two positive references Lanes 1-3: BSE or Scrapie infected brain tissues Lanes 5,7,8: BSE infected lymphoid tissues

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CONCLUSION

The Precellys®24 and kit CK14 allow the homogenization of a large range of animal tissues. The preparation optimized the extraction for quantification of the prion protein.



For more details, please contact precellys@bertin.fr or visit our website



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