

MNPROtein™ RT-QuIC Kit



Priogen

An ultra-sensitive kit for detection of prion disorders.

MNPROtein™ 0.75 mg/mL
Syrian hamster recPrP^C(90-231)

For product details, visit www.priogen.store/products/quic-kits

QuIC Buffer A: -80°C to -20°C
MNPROtein™: -80°C to -20°C
Shelf life: 1 year

Components included in kit

- 3 tubes of MNPROtein™
- 1 tube QuIC Buffer A

Components NOT included in kit

- diH₂O
- 10X Sample Dilution Buffer
 - Can be purchased separately
- 10% tissue homogenate in 1X PBS

Notes

- Immediately transfer MNPROtein™ to -80°C – -20°C upon receipt. Thaw at room temperature just before use. Do **NOT** vortex MNPROtein™. Mix by inversion only.
- Upon thawing Buffer A, vortex vigorously until the precipitate disappears.
- Do **NOT** vortex the reaction mix once the MNPROtein™ has been added.
- Optimization/Troubleshooting:
 - **Temperature:** higher temperature will increase the reaction rate but can reduce specificity.
 - If you encounter inconsistent results, we recommend pre-filtering the MNPROtein™ at 3000 x g for 15 minutes with Pall Nanosep Centrifugal Devices with Omega™ Membrane 100K (NC0388807).
- ★ Product performance is not guaranteed if recommendations are not followed or RT-QuIC parameters are outside scientific community standards.

Protocol for a full 96-well plate (half 384-well plate)

- In a 10 mL tube, pipette the reagents **in order** and vortex:
 - 7207 μL of dH_2O
 - 1460 μL of QulC Buffer A★ Total volume will equal ~ 8.7 mL.
- Add 1333 μL of MNPROtein™ to the same 10 mL tube and mix gently by inversion.★ Total volume will equal 10 mL.
- Pipette 98 μL (49 μL for 384 well) of reaction mix to each plate well.
- Tissue homogenates (10% [w:v] in 1X PBS) must be diluted in 1X Sample Dilution Buffer (available for separate purchase at 10X concentration) prior to addition to the reaction.
 - We recommend that 10% (w:v) lymph tissue homogenates be diluted at least 10-fold.
 - 10 μL homogenate + 90 μL 1X Sample Dilution Buffer.
 - We recommend that 10% (w:v) brain homogenates be diluted at least 100-fold.
- Pipette 2 μL (1 μL for 384 well) of the diluted sample to each well.
- Seal the plate before running the assay.

