



Infectious Disease PCR Testing

We understand that time is of the essence when it comes to detecting and confirming a potential contamination within your research animal colonies. Charles River provides TaqMan® PCR testing to identify infectious agents in your animal colonies, facility, or biologics, so you can accurately manage the presence of unwanted pathogens in real time.

Health Surveillance

Routine Monitoring

PCR is an important component in a complete health surveillance program for the detection and confirmation of the presence of bacteria and viruses. PCR serves as a primary screening technique for agents that are difficult to detect by other methods (e.g., *Helicobacter*), are difficult to characterize via conventional techniques (e.g., *P. pneumotropica*), take a long time to culture (e.g., *M. pulmonis*), or require histopathology (e.g., *Pneumocystis*). This technology is used to confirm the presence of prevalent and persistent viruses (e.g., rodent parvovirus and murine norovirus). PCR is also helpful in detecting infectious agents in immunodeficient rodents that cannot be evaluated by serologic methods.

Quarantine Monitoring

Conventional quarantine most often relies on successful virus transmission to sentinels. Because this method can fail, PCR can be used to augment your quarantine plan by directly evaluating principal rodents for infectious agents days after they arrive at your facility; Charles River offers multiple mouse and rat PRIA Panels. For additional assurances, quarantine sentinels may be tested via PCR at the same time they undergo serology testing.

Cell Line/Research Biologics Screening

Precautionary screening of cell lines and other biologics prior to use for in vivo experimentation is an important biosecurity measure. PCR is a sensitive and specific alternative for evaluating cell cultures, supernatant, ascetic fluid, and purified antibodies for extraneous bacteria and viruses. We offer multiple Viral Panels for either mouse, rat or human infectious agents in addition to specific agent testing.

Environmental Monitoring via PCR

PCR is used to detect pathogens on filters or equipment and other surfaces swabbed from barrier rooms, isolators, and around your facility.

Applications

- Animal Health Surveillance
- Cell Line/ Research Biologics Screening
- Environmental Monitoring

Species Tested

- Mouse
- Rat
- Hamster
- Guinea Pig
- Rabbit
- Other

Assay Technology

- TaqMan® PCR assay yield the most precise results possible
- Singleplex PCR since multiplexing can produce false negative results
- Proprietary spike control included to prevent false results
- Proprietary nucleic acid recovery control (NARC) added to all PRIA and cell line testing
- Free confirmation PCR testing assures that sample contamination has not occurred

To request free shipping materials or a cost estimate, visit us online at www.criver.com/info/quotes.