

PCR Services and Recommended Sample Types
Molecular Diagnostics, Charles River Laboratories

Agent	Recommended Rodent Samples
Viruses	
Mouse Parvoviruses: MVM (MMV), MPV	Mesenteric Lymph Nodes*, Fecal Pellet
Mouse Coronavirus: MHV	Mesenteric Lymph Nodes*, Fecal Pellet*, Liver, Lung, Spleen
Mouse Reovirus Types 1 & 3	Liver*, Lung, Fecal Pellet*
Lymphocytic Choriomeningitis Virus (LCMV; Arenavirus)	Kidney*, Urine
Lactic Dehydrogenase Elevating virus (LDV, LDHV; Arterivirus)	Serum*, Liver, Spleen
Mouse Rotavirus (Group A): EDIM	Cecum/Colon*, Fecal Pellet*
Theilers's murine encephalomyelitis virus (TMEV, GDVII; Picornavirus)	Intestine*, Brain, Fecal Pellet*
Mouse Pox (Poxvirus): Ectromelia	Spleen*, Skin*, Liver, Fecal Pellet
Hantaan (Hantavirus)	Kidney *, Lung, Fecal Pellet
Seoul (Hantavirus)	Lung*, Fecal Pellet
Polyomavirus	Mammary Gland*, Skin, Fecal Pellet
K Virus (Polyomavirus)	Kidney* Fecal Pellet
Adenovirus Type I	Type I: Urine*, Kidney, Spleen, Adrenal Gland
Adenovirus Type II	Type II: Intestine* Fecal Pellet
Mouse Cytomegalovirus Virus (MCMV)	Salivary Gland*, Mouth Swab, Urine
Pneumonia Virus of Mice (PVM; Pneumovirus)	Trachea*, Lung
Murine Thymic Virus (Herpesvirus): MTV, MTLV	Salivary Gland*
Sendai (Paramyxovirus)	Trachea* Lung
Murine Norovirus (MNV) [†]	Fecal Pellet*, Mesenteric Lymph Node*, Ileum
Rat Parvoviruses: RPV, (K)RV, H-1	Mesenteric Lymph Nodes*, Fecal Pellet
Rat Coronavirus: RCV, SDAV	Hardarian Gland*, Salivary Gland
Rat Rotavirus (IDIR, Group B)	Small Intestine*, Fecal Pellet
Rat Theilovirus (Theiler-Like Virus, GDVII-Like Rat Virus; Picornavirus)	Intestine*, Fecal Pellet*
Rat Cytomegalovirus (RCMV)	Salivary Gland* Kidney, Urine.
Guinea Pig Cytomegalovirus	Salivary Gland*, Kidney, Spleen, Fecal Pellet/Urine
Bacteria/Other	
<i>Helicobacter</i> : Includes 3 Assays – <i>Helicobacter</i> genus, <i>H. hepaticus</i> , & <i>H. bilis</i>	Fecal Pellet*, Cecum/Colon
<i>Mycoplasma</i> genus	Cell cultures*, media*
<i>Mycoplasma pulmonis</i>	Trachea*, Nasal Aspirate*, Mouth Swab
<i>Pneumocystis carinii</i>	Lung*, Lung Wash, Nasal aspirate
<i>Streptobacillus moniliformes</i>	Nasal Aspirate
<i>Corynebacterium bovis</i>	Skin Swab*
Cilia-associated respiratory (CAR) bacillus	Trachea*, Lung*, Lung Wash
<i>Bordetella bronchiseptica</i>	Nasal Aspirate*
<i>Encephalitozoon cuniculi</i>	Kidney*, Brain, Fecal Pellet/Urine

All protocols include DNA and/or RNA spike assays for the detection of RT and PCR inhibitors

*Preferred sample type

PCR Services and Recommended Sample Types Molecular Diagnostics, Charles River Laboratories

Recommended sample amounts/shipping conditions:

- **Tissues:** minimum of 50 mg; ship on dry ice
- **Fecal pellets:** No more than 2 pellets per tube; ship on ice packs or at ambient temperature. Avoid bedding material during collection. Select fresh pellets when possible to reduce processing complications.

Virus Fecal Pooling: If you are using our Parvovirus (mice or rats) or Murine Norovirus (MNV) Fecal Pool Service, place up to 10 pellets in the same tube. All pellets in the same tube will be processed together so individual pellet results will not be reported. This procedure may be used for other viruses in addition to rodent parvoviruses and MNV.

- **Cell culture, serum, or other fluid:** 500 μ L; ship on dry ice. If the cell concentration exceeds 5×10^7 cells/mL (or total of 1×10^7 cells in a cell pellet), please record the value on the submission form. We recommend submitting duplicate samples for virus PCR panels whenever possible. Smaller sample volumes can be tested when there is not enough material to submit at the recommended volume (e.g. antibodies or proteins that are scarce or precious). Never dilute sample material.
- **Environmental Swabs:** Place in sealed container and ship on ice packs or at ambient temperature. Swabs can be moistened with sterile water or phosphate buffered saline prior to swabbing test area to improve collection. Note: Alginate swabs can inhibit PCR – please use cotton or synthetic (Dacron or rayon) swabs e.g. BactiSwab® Dry from Remel. Do not place swabs in transport media.

We will be glad to send you a kit containing approved swabs for sample collection and submission materials.

- **Filter material:** 1-2 inch sections shipped at room temperature in individual zip-lock bags or 50 mL tubes. Select filter material that is dirtiest.

For safety reasons, please do not ship specimens in glass containers.

Submission forms, kits, and additional information can be obtained from Charles River Technical Services at 1-800-338-9680. Submission forms and additional testing information can also be found at www.criver.com.