

**VETERINARY LABORATORY SERVICES UNIT
DEPARTMENT OF VETERINARY LABORATORY DIAGNOSTICS
FACULTY OF VETERINARY MEDICINE, UPM**

SPECIMENS SUBMISSION FOR VIROLOGY LABORATORY				
Species	Tests		Sample Type	Storage and Transportation
All species - General (targeting conserved region of the family of the virus)	Enteroviridae (Nested RT-PCR)	All species	Rectal swab, the respiratory secretions (e.g; saliva, sputum, or nasal mucus), organs	<p>All specimens should be properly labeled and tightly sealed using specimen bags, collector tubes or where appropriate.</p> <p>Keep specimens chilled prior transportation.</p> <p>Keep swabs in viral transport media.</p> <p>Only fresh blood can be tested, and it must not be frozen.</p> <p>Transport specimens immediately within 24 hours in cold chain (preferably in ice box with ice packs - 4°C to 8°C).</p>
	Paramyxoviridae (Nested RT-PCR)	Canine; -Canine Distemper	Smears of conjunctival, tracheal, vaginal, or other epithelium; the buffy coat of the blood; urine sediment; or bone marrow aspirates, organs	
		All species	Depends on the species	
	Herpesviridae (Nested RT-PCR)	Bovine; *Positive result could be either: -Infectious Bovine Rhinotracheitis or -Malignant Catarrhal Fever	Nasal and ocular secretions, semen, anticoagulated blood, kidney, lymph nodes, intestinal wall, brain, spleen, lung, serum, heparinized blood (MCF)	
		Canine; -Canine Herpesvirus	Nasal or pharyngeal swab, ocular swab, vaginal swab, nasal or lung tissue	
		Equine; -Equine Herpesvirus	Nasal swab or wash, nasopharyngeal swab, tracheal wash, BAL, lung tissue, or whole blood (LTT), vaginal swab, penile swab, or biopsy of sore, liver, adrenal and lymphoreticular tissue	
		Feline; -Feline Rhinotracheitis	Nasal swab, pharyngeal swab, oral swab, or ocular (cornea)/conjunctival swab	
		All species	Nasal or pharyngeal swab ,brain, tonsils, and spleen, blood	
	Retroviridae (Nested RT-PCR)	All species	Depends on the species	
	Flaviviridae (RT-PCR)	All species	Depends on the species	
	Filoviridae (Nested RT-PCR)	All species	Depends on the species	
	Coronaviridae (Nested RT-PCR)	All species	Depends on the species	
	Arenaviridae (RT-PCR)	All species	Depends on the species	

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Avian	Avian Influenza Virus (RT-PCR)	Lung, trachea, intestine, oropharyngeal swab, cloacal swab	<p>All specimens should be properly labeled and tightly sealed using specimen bags, collector tubes or where appropriate.</p> <p>Keep specimens chilled prior transportation.</p> <p>Keep swabs in viral transport media.</p> <p>Only fresh blood can be tested, and it must not be frozen.</p> <p>Transport specimens immediately within 24 hours in cold chain (preferably in ice box with ice packs - 4°C to 8°C).</p>
	Infectious Bursal Disease Virus (RT-PCR)	Bursa, cloacal swab, organs	
	Infectious Bronchitis Virus (RT-PCR)	Lung, Trachea, Kidney, Reproductive Tract, oropharyngeal swab	
	Newcastle Disease Virus (RT-PCR)	Lung, Trachea, Ceecal Tonsil, Brain, Kidney, oropharyngeal swab	
	Avian Adenovirus (Inclusion Body Hepatitis) (PCR)	Liver, Kidney	
	Bird Sexing (PCR)	Feathers from Bird's Chest with its base attached. (minimum 10 feathers)	
Avian	Enzyme-Linked Immunosorbent Assay (ELISA); -Infectious Bursal Disease -Newcastle Disease Virus -Infectious Bronchitis Virus -Mycoplasma Gallisepticum -Mycoplasma Synoviae -Salmonella Group D -Chicken Anemia Virus -Reovirus	Serum	Not available at the moment
Bovine	Malignant Catarrhal Fever (Nested PCR)	Refer to Herpesviridae family detection	<p>All specimens should be properly labeled and tightly sealed using specimen bags, collector tubes or where appropriate.</p> <p>Keep specimens chilled prior transportation.</p> <p>Keep swabs in viral transport media.</p> <p>Only fresh blood can be tested, and it must not be frozen.</p> <p>Transport specimens immediately within 24 hours in cold chain (preferably in ice box with ice packs - 4°C to 8°C).</p>
	Infectious Bovine Rhinotracheitis (Nested PCR)		
	Bovine Viral Diarrhea (Family: Flaviviridae)		

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Canine	Canine Adenovirus (Infectious Canine Hepatitis) (Nested PCR)	Nasal swab, tracheal wash, ocular swab, or lung tissue	<p>All specimens should be properly labeled and tightly sealed using specimen bags, collector tubes or where appropriate.</p> <p>Keep specimens chilled prior transportation.</p> <p>Keep swabs in viral transport media.</p> <p>Only fresh blood can be tested, and it must not be frozen.</p> <p>Transport specimens immediately within 24 hours in cold chain (preferably in ice box with ice packs - 4°C to 8°C).</p>
	Canine Parvovirus (PCR)	Feces or GI tissue	
	Canine Distemper (Nested RT-PCR)	Refer to Paramyxoviridae family detection	
	Canine Herpesvirus (Nested PCR)	Refer to Herpesviridae family detection	
	COVID-19 (Real Time RT-PCR)	Nasal, mouth and rectal swabs	
Equine	African Horse Sickness Virus (RT-PCR)	Whole blood, spleen, lung, and lymph nodes	
	Equine Influenza Virus (RT-PCR)	Nasal swab or wash, tracheal wash, pharyngeal swab or wash, or lung tissue	
Feline	Feline Coronavirus (RT-PCR)	Rectal swab, peritoneal fluid, feces, CSF, whole blood (LTT), ocular swab, spleen, kidney, or lung tissue	
	Feline Leukemia Virus (RT-PCR)	Whole blood (LTT), CSF, bone marrow, or tissue	
	Feline Parvovirus (PCR)	Feces, whole blood (LTT), or lymphatic tissues	
	Feline Rhinotracheitis (Nested PCR)	Refer to Herpesviridae family detection	
	COVID-19 (Real Time RT-PCR)	Nasal, mouth and rectal swabs	
Rodent/Mice	Mouse Rotavirus (RT-PCR)	Feces or rectal swab, Whole blood, Saliva swab	Not available at the moment
	Mouse Parvovirus (PCR)	Feces or rectal swab, Whole blood, Saliva swab	
	Murine Norovirus (RT-PCR)	Feces or rectal swab, Whole blood, Saliva swab	
	Theiler's Murine Encephalomyelitis Virus (RT-PCR)	Feces or rectal swab, Whole blood, Saliva swab	
Rodent/Rat	Rat Parvovirus (PCR)	Feces or rectal swab, Whole blood	Refer to Coronaviridae family detection
	Rat Theilovirus (RT-PCR)	Feces or rectal swab, Whole blood, Saliva swab	
	Rat Coronavirus (Nested RT-PCR)	Feces or rectal swab, Whole blood, Saliva swab	