

**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	Fee Charges (RM)
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 style="text-align: center;">All specimens should be properly labeled and tightly sealed using specimen bags, collector tubes or where appropriate.</p> <p style="text-align: center;">Keep specimens chilled prior transportation.</p> <p style="text-align: center;">Keep swabs in viral transport media.</p> <p style="text-align: center;">Only fresh blood can be tested, and it must not be frozen.</p> <p style="text-align: center;">Transport specimens immediately within 24 hours in cold chain (preferably in ice box with ice packs - 4°C to 8°C).</p>	200.00
	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		200.00
		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)		195.00
		Canine; -Canine Herpesvirus	Nasal or pharyngeal swab, ocular swab, vaginal swab, nasal or lung tissue		195.00
		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		195.00
		Feline; -Feline Rhinotracheitis	Nasal swab, pharyngeal swab, oral swab, or ocular (cornea)/conjunctival swab		195.00
		All species	Nasal or pharyngeal swab ,brain, tonsils, and spleen, blood		195.00
	Retroviridae (Nested RT-PCR)	All species	Depends on the species		200.00
	Flaviviridae (RT-PCR)	All species	Depends on the species		125.00
	Filoviridae (Nested RT-PCR)	All species	Depends on the species		200.00
	Coronaviridae (Nested RT-PCR)	All species	Depends on the species		200.00
	Arenaviridae (RT-PCR)	All species	Depends on the species		125.00

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Avian	Avian Influenza Virus (RT-PCR)	Lung, trachea, intestine, oropharyngeal swab, cloacal swab	All specimens should be properly labeled and tightly sealed using specimen bags, collector tubes or where appropriate.	125.00
	Infectious Bursal Disease Virus (RT-PCR)	Bursa, cloacal swab, organs		125.00
	Infectious Bronchitis Virus (RT-PCR)	Lung, Trachea, Kidney, Reproductive Tract, oropharyngeal swab	Keep specimens chilled prior transportation. Keep swabs in viral transport media.	125.00
	Newcastle Disease Virus (RT-PCR)	Lung, Trachea, Ceacal Tonsil, Brain, Kidney, oropharyngeal swab		125.00
	Avian Adenovirus (Inclusion Body Hepatitis) (PCR)	Liver, Kidney	Only fresh blood can be tested, and it must not be frozen.	120.00
	Bird Sexing (PCR)	Feathers from Bird's Chest with its base attached. (minimum 10 feathers)		120.00
			Refer to the Specimen Submission Guideline for Avian DNA Sexing https://vet.upm.edu.my/upload/dokumen/20221114104238SPECIMEN_SUBMISSION_GUIDELINE_FOR_AVIAN_DNA_SEXING.pdf	
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	6.00-16.30
Bovine	Malignant Catarrhal Fever (Nested PCR)	Refer to Herpesviridae family detection	All specimens should be properly labeled and tightly sealed using specimen bags, collector tubes or where appropriate. Keep specimens chilled prior transportation. Keep swabs in viral transport media.	195.00
	Infectious Bovine Rhinotracheitis (Nested PCR)			
	Bovine Viral Diarrhea (Family: Flaviviridae)	Buffy coat cells, whole blood, washed leukocytes, serum, semen, nasal swab, spleen, mesenteric lymph node	Only fresh blood can be tested, and it must not be frozen.	125.00
		Transport specimens immediately within 24 hours in cold chain (preferably in ice box with ice packs - 4°C to 8°C).		

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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>	195.00
	Canine Parvovirus (PCR)	Feces or GI tissue		120.00
	Canine Distemper (Nested RT-PCR)	Refer to Paramyxoviridae family detection		200.00
	Canine Herpesvirus (Nested PCR)	Refer to Herpesviridae family detection		195.00
	COVID-19 (Real Time RT-PCR)	Nasal, mouth and rectal swabs		250.00
Equine	African Horse Sickness Virus (RT-PCR)	Whole blood, spleen, lung, and lymph nodes	125.00	
	Equine Influenza Virus (RT-PCR)	Nasal swab or wash, tracheal wash, pharyngeal swab or wash, or lung tissue	125.00	
Feline	Feline Coronavirus (RT-PCR)	Rectal swab, peritoneal fluid, feces, CSF, whole blood (LTT), ocular swab, spleen, kidney, or lung tissue	125.00	
	Feline Leukemia Virus (RT-PCR)	Whole blood (LTT), CSF, bone marrow, or tissue	125.00	
	Feline Parvovirus (PCR)	Feces, whole blood (LTT), or lymphatic tissues	120.00	
	Feline Rhinotracheitis (Nested PCR)	Refer to Herpesviridae family detection	195.00	
	COVID-19 (Real Time RT-PCR)	Nasal, mouth and rectal swabs	250.00	
Rodent/Mice	Mouse Rotavirus (RT-PCR)	Feces or rectal swab, Whole blood, Saliva swab	<p>Not available at the moment</p>	125.00
	Mouse Parvovirus (PCR)	Feces or rectal swab, Whole blood, Saliva swab		120.00
	Murine Norovirus (RT-PCR)	Feces or rectal swab, Whole blood, Saliva swab		125.00
	Theiler's Murine Encephalomyelitis Virus (RT-PCR)	Feces or rectal swab, Whole blood, Saliva swab		125.00
Rodent/Rat	Rat Parvovirus (PCR)	Feces or rectal swab, Whole blood	120.00	
	Rat Theilovirus (RT-PCR)	Feces or rectal swab, Whole blood, Saliva swab	125.00	
	Rat Coronavirus (Nested RT-PCR)	Feces or rectal swab, Whole blood, Saliva swab	200.00	