

MOLECULAR DIAGNOSTICS
SCHEDULE
578-9777



Louisiana Animal Disease Diagnostic Laboratory

Please Note: The listed fee is the price charged to the veterinarian for LADDL's diagnostic test. Clients of veterinarians should expect their final cost to be higher to compensate for professional input, such as specimen collection and preparation, shipping and handling, interpretation of test results and incorporation of those results into a treatment plan.

Test Description	Code	Fee ⁶	Estimated Turnaround Time (business days)
<u>AQUATIC PATHOGEN DETECTION</u>			
<i>Francisella noatunensis</i> (1-2 specimens)*	MAQ001	\$44.00	1-3 Days
Infectious Salmon Anemia Virus ¹ (1-2 specimens)*	MAQ002	TBD	2-3 Days
Koi Herpesvirus (KHV; 1-2 specimens)*	MAQ003	\$44.00	2-3 Days
Spring Viremia of Carp Virus ¹ (1-2 specimens)*	MAQ004	TBD	2-3 Days
Tilapia Lake Virus (TiLV; 1-2 specimens)*	MAQ005	TBD	2-3 Days
Whitespot Syndrome Virus (1-2 specimens)*	MAQ006	\$44.00	2-3 Days
Yellow Head Virus (YHV; Shrimp) ¹ (1-2 specimens)*	MAQ007	TBD	2-3 Days
*Each additional specimen \$18.00			
<u>AVIAN PATHOGEN DETECTION</u>			
Avian Influenza Virus Matrix Gene Specific (1-2 specimens)	MAV001	\$53.00	2-3 Days
Avian Influenza Virus Matrix Gene Specific (each additional specimen)	NA	\$27.00	
<i>Chlamydiaceae</i>	MAV003	\$46.00	2-3 Days
<i>Chlamydia psittaci</i>	MAV004	\$46.00	2-3 Days
Exotic Newcastle Disease (1-2 specimens)	MAV005	\$53.00	2-3 Days
Exotic Newcastle Disease (each additional specimen)	NA	\$27.00	
Infectious Bronchitis Virus (IBV)	MAV006	TBD	2-3 Days
Infectious Laryngotracheitis Virus	MAV007	\$53.00	2-3 Days
<i>Mycoplasma gallisepticum</i> (1-2 specimens)	MAV008	\$46.00	2-3 Days
<i>Mycoplasma gallisepticum</i> (each additional specimen)	NA	\$24.00	
Mycoplasma genus sequencing	MAV009	\$100.00	2-3 Days
<i>Mycoplasma synoviae</i> (1-2 specimens)	MAV010	\$46.00	2-3 Days
<i>Mycoplasma synoviae</i> (each additional specimen)	NA	\$24.00	2-3 Days
<u>COMPANION ANIMAL (CANINE, FELINE AND EQUINE) PATHOGEN DETECTION</u>			
<u>CANINE PATHOGENS</u>			
<u>Canine Blood Pathogens:</u>			

<i>Anaplasma marginale</i>	MCBP001	\$42.00	2-3 Days
<i>Anaplasma phagocytophilum</i> ³	MCBP002	TBD	2-3 Days
<i>Anaplasma platys</i>	MCBP003	\$60.00	2-3 Days
<i>Babesia canis</i> ³	MCBP004	TBD ⁴	2-3 Days
<i>Babesia gibsoni</i> ³	MCBP005	TBD	2-3 Days
<i>Bartonella spp</i> ³	MCBP006	TBD	2-3 Days
<i>Ehrlichia canis</i>	MCBP007	\$49.00	2-3 Days
<i>Ehrlichia chaffeensis</i> ³	MCBP008	TBD	2-3 Days
<i>Ehrlichia ewingii</i> ³	MCBP009	TBD	2-3 Days
<i>Leishmania</i> ³	MCBP010	TBD	2-3 Days
<i>Trypanosoma cruzi</i>	MCBP011	\$52.00	2-3 Days
<u>Canine Respiratory Pathogens:</u>			
<i>Bordetella bronchiseptica</i> ³	MCRP001	\$60.00	2-3 Days
Canine adenovirus-2 (CAV-2) ³	MCRP002	\$60.00	2-3 Days
Canine Distemper (CDV)	MCRP003	\$60.00	2-3 Days
Canine Herpesvirus-1 (CHV-1)	MCRP004	\$60.00	2-3 Days
Canine Influenza Virus Matrix	MCRP005	\$60.00	
Canine Influenza Virus H3N8	MCRP006	\$60.00	2-3 Days
Canine Influenza Virus H3N2	MCRP007	\$60.00	2-3 Days
Canine Respiratory Coronavirus (CRCoV) ³	MCRP008	\$60.00	2-3 Days
Canine Parainfluenza virus (CPIV)	MCRP009	\$60.00	2-3 Days
Canine pneumovirus (CPnV)	MCRP011	\$60.00	2-3 Days
COVID-19 (SARS-CoV-2) - First specimen (e.g., nasal swab) \$110; additional specimens from the same animal (e.g., oropharyngeal and rectal swabs) add \$20.00 per specimen (testing three specimens from the same animal is recommended)	MCRP010	\$110.00- \$150.00	1-2 Days
<i>Mycoplasma canis</i>	MCRP012	\$60.00	2-3 Days
<i>Mycoplasma cynos</i>	MCRP013	\$60.00	2-3 Days
<u>Canine Respiratory Disease Panel</u>			
<u>Canine Respiratory Multiplex qPCR Panel (twelve viral and bacterial pathogens):</u> Canine influenza (CIV; Influenza A specific - identifies H3N8, H3N2, and H1N1 subtypes), Canine distemper virus (CDV), Canine parainfluenza virus (CPIV), Canine adenovirus-2 (CAV-2), Canine respiratory coronavirus (CRCoV), Canine pneumovirus (CPnV), Canine herpesvirus 1 (CHV-1), SARS-CoV-2, <i>Bordetella bronchiseptica</i> , <i>Streptococcus equi subssp. zooepidemicus</i> , <i>Mycoplasma cynos</i> and <i>Mycoplasma canis</i>	MCRPL001	\$100.00	2-4 Days
<u>Canine Influenza Subtyping Multiplex qPCR Panel:</u> Differentiates influenza H3N8, H3N2, and H1N1 subtypes	MCRPL002	\$70.00	1-2 Days
<u>Canine Enteric Viruses:</u>			
Canine Coronavirus (Enteric Coronavirus; CCoV)	MCEP001	\$60.00	1- 2 Days

Canine Parvovirus Genotyping (2a, 2b or 2c) PCR ⁶	MCEP002	TBD	3-4 Days
<u>Canine Enteric Disease Panel</u>			
Canine Enteric Multiplex qPCR Panels (Seven viral pathogens): Canine distemper virus (CDV), Canine parvovirus (CPV), Canine enteric coronavirus (CECoV), Canine adenovirus type 1 (CAvV-1), Canine rotavirus (CRV) and SARS-CoV-2	MCEP003	\$100.00	1-2 Days
<u>Other Canine Pathogens:</u>			
<i>Bartonella henselae</i>	MCOP001	\$49.00	1-2 Days
<i>Leptospira spp.</i>	MCOP002	\$55.00	1-2 Days
<i>Toxoplasma gondii</i>	MVS001	\$55.00	1-2 Days
<u>Canine Tick/Vector-Borne Disease Comprehensive Panel:</u> ³			
Anaplasma, Babesia, Bartonella, Ehrlichia, and mycoplasma (<i>M. hemocanis</i>) ³ Panel 1	MCTBP001	TBD	2-4 Days
Rickettsiales species (<i>Ehrlichia canis</i> , <i>E. chaffeensis</i> , <i>E. ewingii</i> , <i>Rickettsia rickettsii</i> , <i>Anaplasma phagocytophilum</i>); Borrelia species (<i>B. burgdorferi</i> , <i>B. hermsii</i> , <i>B. parkeri</i> , <i>B. turicatae</i>) and Babesia species (<i>B. gibsoni</i> , <i>B. canis</i> , <i>B. caballi</i>) ⁵ Panel 2	MCTBP002	TBD	2-5 Days
<u>FELINE PATHOGENS</u>			
<i>Bartonella henselae</i>	MFP001	\$49.00	1-2 Days
<i>Chlamydia felis</i>	MFP007	\$60.00	
Feline Calicivirus ⁵	MFP002	\$60.00	2-4 Days
Feline Herpesvirus Type 1	MFP003	\$60.00	1-2 Days
Feline Infectious Peritonitis(FIP) virus and Feline Enteric Coronavirus (FeCoV)	MFP004	\$60.00	1-2 Days
Feline Immunodeficiency Virus ⁵	MFP005	TBD	2-4 Days
Feline parvovirus ⁵	MFP006	\$60.00	2-4 Days
<i>Mycoplasma felis</i>	MFP008	\$60.00	
<i>Toxoplasma gondii</i>	MVS001	\$55.00	1-2 Days
<u>Feline Respiratory Disease Panel</u> ⁵			
Feline Respiratory Multiplex qPCR Panel (seven viral and bacterial pathogens): SARA-CoV-2, Feline herpesvirus, Feline calicivirus (FCV), Influenza A (identifies H3N8, H3N2, and H1N1 subtypes), <i>Bordetella bronchiseptica</i> , <i>Chlamydia felis</i> , and <i>Mycoplasma felis</i> .	MFRPL002	\$100.00	1-2 Days
<u>Feline Enteric Disease Panel</u>			
SARS-CoV-2, Feline Coronavirus/Feline infectious peritonitis virus (FECOV/FIPV), Feline pancytopenia virus (Feline parvovirus), and Feline rotavirus	MFRPL001	\$100.00	1-2 Days
<u>EQUINE PATHOGEN DETECTION</u>			
<u>Equine Respiratory Pathogens:</u>			
Equine Arteritis Virus (EAV)	MER001	\$38.00	1- 2 Days

Equine Influenza Matrix Virus (EIV)	MER002	\$58.00	1- 2 Days
Equine Influenza Virus (EIV) H3N8 (currently circulating) nucleocapsid (NP)	MER003	TBD	1- 2 Days
Equine Influenza H7N7 nucleocapsid (NP)	MER004	TBD	1- 2 Days
Equine Herpesvirus-1 Duplex A & G discrimination (equine herpesvirus myeloencephalopathy [EHM] genotyping qPCR I)	MER005	\$70.00	1- 2 Days
Equine Herpesvirus-1 Triplex A, G & C discrimination (equine herpesvirus myeloencephalopathy [EHM] genotyping qPCR II)	MER006	TBD	1- 2 Days
Equine Herpesvirus-1 (gB)	MER007	\$58.00	1- 2 Days
Equine Herpesvirus 1 and Equine Hepresvirus-4 Duplex	MER008	TBD	1- 2 Days
Equine Herpesvirus-4 (EHV-4)	MER009	\$60.00	1- 2 Days
Equine Herpesvirus -2 (EHV-2)	MER011	\$60.00	1- 2 Days
Equine Herpesvirus -5 (EHV-5)	MER012	\$60.00	1- 2 Days
Equine Gamma Herpesvirus (i.e., EHV-2 and EHV-5)	MER013	TBD	1- 2 Days
Equine Rhinitis A Virus	MER014	\$49.00	1- 2 Days
Equine Rhinitis A and B (ERVA and ERVB)	MER015	\$88.00	1- 2 Days
<i>Streptococcus equi</i> subsp <i>equi</i> (Strangles) 1-2 specimens	MER016	\$55.00	1- 2 Days
<i>Streptococcus equi</i> subsp <i>equi</i> (Strangles) each additional specimen	NA	\$27.00	
<i>Rhodococcus equi</i>	MER017	\$60.00	1- 2 Days
<u>Equine Enteric Pathogens:</u>			
Equine Coronavirus (ECoV)	MEE001	TBD	1-2 Days
Equine Rotavirus G3 and G14 (Triplex assay)	MEE002	TBD	1-2 Days
Equine (Pan) Rotavirus	MEE003	\$44.00	1-2 Days
<u>Equine Encephalitis Viruses:</u>			
Eastern Equine Encephalitis (EEE)	MEEV001	\$58.00	1-2 Days
St. Louis Encephalitis Virus (SLE)	MEEV002	\$58.00	1-2 Days
West Nile Virus (WNV) 1-2 specimens	MEEV003	\$58.00	1-2 Days
West Nile Virus (WNV) each additional specimen	NA	\$33.00	1-2 Days
Equine Encephalitis Virus Triplex (EEE, SLE, and WNV)	MEEV004	\$137.00	1-2 Days
<u>Other Equine Pathogens:</u>			
<i>Clostridium perfringens</i> Typing A, B, C, D & E toxins - by identifying toxin genes (alpha, cpa; beta, cpb, epsilon, etx; iota, ia) as well as genes for beta 2 toxin (cpb2) and enterotoxin (cpe) by real time PCR (need bacterial isolate) ⁵	MOE001	TBD	2-4 Days
<i>Clostridium difficile</i> A and B toxins ³	MOE002	TBD	2-4 Days
<i>Cryptosporidium</i> spp. & <i>Giardia</i> Panel ⁵	MOE003	TBD	2-4 Days
Equine Herpesvirus-3 (EHV-1)	MOE004	\$60.00	2-4 Days
<i>Lawsonia intracellularis</i> ⁵	MOE005	TBD	2-4 Days
<i>Leptospira interrogans</i>	MOE006	\$55.00	1- 2 Days
<i>Neorickettsia risticii</i> the causative agent of Potomac Horse Fever (PHF) ⁵	MOE007	TBD	2-4 Days
<i>Neospora hughesi</i>	MOE008	TBD	1-2 Days
<i>Norcardia palcentitis</i> ⁵	MOE009	TBD	2-4 Days

<i>Sarcocystis neurona</i>	MOE010	TBD	1-2 Days
<i>Salmonella sp</i> ⁵	MOE011	TBD	2-4 Days
<i>Streptococcus zooepidemicus</i> ³	MOE012	TBD	1-2 Days
<i>Taylorella equigenitalis</i> (Contagious Equine Metritis) CD285023 ³	MOE013	TBD	1-2 Days
<i>Taylorella equigenitalis, Klrbsiella pneumoniae, Pseudomonas aeruginosa</i> (multiplex) CD285115 ³	MOE014	TBD	1-2 Days
Equine Panels:			
Equine Abortion Fetal Tissue Panel I: (EAV, EHV-1, and EHV-4)	MEP001	\$88.00	2-4 Days
Equine Abortion Fetal Tissue Panel II: EAV, EHV-1 (geno typing - duplex), EHV-4, <i>Leptospira, Norcardia</i>)	MEP002	TBD	2-4 Days
Equine Foal Diarrhea Panel: <i>Clostridium perfringens</i> toxins A, B, E, & NetF, <i>Cryptosporidium spp.</i> , <i>Lawsonia intracellularis</i> , <i>Neorickettsia risticii</i> (PHF), <i>Salmonella spp.</i> , <i>Rhodococcus equi</i> , Equine Coronavirus, and Rotavirus.	MEP003	TBD	2-4 Days
Equine adult Diarrhea Panel : <i>Clostridium perfringens</i> Typing A, B, C, D & E toxins, Equine Coronavirus, <i>N. risticii</i> (PHF), and <i>Salmonella spp</i> ⁵	MEP004	TBD	2-4 Days
Equine Herpesvirus Respiratory Disease Panel: EHV-1 (genotyping - duplex), EHV-2, EHV-4, EHV-5 & EAV	MEP005	\$132.00	2-4 Days
Equine Herpesvirus Respiratory Disease Panel I: EHV-1 (genotyping - duplex), EHV-4, EIV & EAV	MEP006	\$132.00	2-4 Days
Equine Respiratory Disease Panel II: <i>S. equi</i> , EHV-1, EAV, EHV-4 and EIV	MEP007	\$143.00	2-4 Days
Equine Respiratory Disease Panel III: <i>S. equi</i> , EHV-1, EHV-4, EIV, equine rhinitis virus A and B (ERAV and ERBV) and EAV	MEP008	\$165.00	2-4 Days
Equine Tick-borne Disease Panel : Rickettsiales species (<i>Ehrlichia canis</i> , <i>E. chaffeensis</i> , <i>E. ewingii</i> , <i>Rickettsia rickettsii</i> , <i>Anaplasma phagocytophilum</i>); Borrelia species (<i>B. burgdoreferi</i> , <i>B. hermsii</i> , <i>B. parkeri</i> , <i>B. turicatae</i>) and Babesia species (<i>B. gibsoni</i> , <i>B. canis</i> , <i>B. caballi</i>) ⁵	MEP009	TBD	3-5 Days
FARM ANIMALS			
Bovine:			
<i>Anaplasma marginale</i> (1-2 specimens)	MBV001	\$42.00	1-2 Days
<i>Anaplasma marginale</i> (each additional specimen)	NA	\$20.00	1-2 Days
<i>Anaplasma platys</i>	MBV002	\$60.00	1-2 Days
Bovine coronavirus (BCoV)	MBV003	TBD	1-2 Days
Bovine Leukemia Virus (1-2 specimens)	MBV005	\$45.00	1-3 Days
Bovine Leukemia Virus (each additional specimen)	NA	\$23.00	1-3 Days
Bovine Respiratory Syncytial Virus (BRSV; 1-2 specimens)	MBV006	\$44.00	1-3 Days
Bovine Respiratory Syncytial Virus (BRSV; each additional specimen)	NA	\$22.00	1-3 Days
Bluetongue Virus (1-2 specimens)	MBV007	\$53.00	1-3 Days
Bluetongue Virus (each additional specimen)	NA	\$26.00	1-3 Days
Bovine Viral Diarrhea Virus (1-2 specimens)	MBV008	\$51.00	1-3 Days
Bovine Viral Diarrhea Virus (each additional specimen)	NA	\$25.00	1-3 Days
Bovine Viral Diarrhea Virus Pooled (up to 10 samples/pool)	MBV009	\$51.00	1-3 Days

<i>Chlamydiaceae</i> Bovine	MBV010	\$46.00	1-3 Days
EHDV (Epizootic hemorrhagic disease virus)	MBV011	\$55.00	1-3 Days
Infectious Bovine Rhinotracheitis(IBR)/ Bovine Herpesvirus-1 (BHV-1) (1-2 specimens)	MBV012	\$43.00	1-3 Days
Infectious Bovine Rhinotracheitis (IBR)/ Bovine Herpesvirus-1 (BHV-1) (each additional specimen)	NA	\$21.00	1-3 Days
Mycobacterium avium subsp. paratuberculosis (Johne's Disease)	MBV013	TBD	1-3 Days
<i>Mycoplasma bovis</i> (<i>M. bovis</i> ; 1-2 specimens)	MBV014	\$44.00	1-3 Days
<i>Mycoplasma bovis</i> (<i>M. bovis</i> ; each additional specimen)	NA	\$22.00	1-3 Days
<i>Leptospira interrogans</i>	MBV015	\$50.00	1-3 Days
<i>Toxoplasma gondii</i>	MVS001	\$55.00	1-2 Days
<i>Tritrichomonas foetus</i> (1-2 specimens)	MBV017	\$36.00	1-3 Days
<i>Tritrichomonas foetus</i> (each additional specimen)	NA	\$20.00	1-3 Days
<i>Tritrichomonas foetus</i> Pooled (up to 3 samples)	MBV018	\$36.00	1-3 Days
<u>Bovine qPCR Panels</u>			
Bovine Multiplex (Detection of 4 pathogens known to infect bovine; includes BVDV, BLV), (IBR/ BHV-1), and (BTV). Testing for this combination of pathogens is often useful in fulfilling certain export requirements ⁵	MBVPL001	TBD	3-5 Days
Bovine Respiratory Bacteria Panel: <i>M. hemolytica</i> , <i>P. multocida</i> , <i>H. somni</i> , <i>M. bovis</i>) ³	MBVPL002	TBD	3-5 Days
Bovine Respiratory Virus Panel I (3 viral pathogens): BHV-1, BRSV, BPIV-3, BCoV) ³	MBVPL003	TBD	3-5 Days
Bovine Respiratory Virus Panel I (5 viral pathogens): BRSV, BVD, BPIV-3, BHV-1 and BCoV ⁵	MBVPL004	TBD	3-5 Days
Bovine Bacterial Respiratory Panel II (5 bacterial pathogens): <i>Histophilus somni</i> , <i>Mannheimia haemolytica</i> , <i>Pasteurella multocida</i> <i>Arcanobacterium (Truperella) pyogenes</i> and <i>Mycoplasma bovis</i> ⁵	MBVPL005	TBD	3-5 Days
Calf Diarrhea Multiplex Panel: Detection of the most common viral and protozoal causes of diarrhea in calves 60 days of age and younger. Includes BCoV, bovine rotavirus A, and cryptosporidium ⁵	MBVPL006	TBD	3-5 Days
<u>Caprine and Ovine:</u>			
<i>Coxiella burnetti</i>	MCO001	TBD	3-5 Days
<i>Toxoplasma gondii</i>	MVS001	\$55.00	1-2 Days
<u>Porcine (Swine):</u>			
Swine Influenza Matrix	MP001	\$53.00	
Porcine Circovirus 2 and 3 (PCV2 and PCV3)	MP002	TBD	
Porcine Delta Coronavirus (PDCoV), Transmissible Gastroenteritis Virus (TGEV), and Porcine Epidemic Diarrhea Virus (PEDV)	MP003	TBD	
Porcine Respiratory Coronavirus (PRCoV)	MP004	TBD	
Porcine hemagglutinating encephalomyelitis virus	MP005	TBD	
Transmissible Gastroenteritis Virus (TGEV)	MP006	TBD	
Porcine Reproductive and Respiratory Syndrome Virus (PRRSV) -	MP007	TBD	
Rotavirus A-C	MP008	TBD	
<u>Special Molecular Testing:</u>			

Panfungal PCR: Identification of fungal organisms by PCR and sequencing. This PCR is recommended to complement identification of fungal organisms on histopathology and cytology. The assay is not recommended when fungal organisms are not observed histologically, due to the potential of amplification of non specific contaminants (need the paraffin block and two unstained slides)	MSPT001	TBD	4-5 Days
16S Bacterial Identification PCR	MSPT002	\$99.00	3-4 Days
Bacterial Identification	MSPT003	TBD	3-4 days
FFPE nucleic acid extraction	MSPT004	\$44.00	3-4 Days
Mast Cell (PCR) C-Kit Exon 11 ⁸	MSPT005	\$88.00	3-4 Days
Molecular Pathology Markers e.g., Mutations, Clonality Testing (PARR; additional biopsy and consultation fees [\$75-\$200/case] may apply) ⁵	MSPT006	TBD	3-4 days
Illumina/MinION Next Generation Sequencing (NGS) - Whole genome sequencing of bacterial pathogens (e.g., antibiotic sensitivity resistance genes etc.)/organism	MSPT007	TBD	2 weeks
Sequence Data Analysis per hour	MSPT008	TBD	1 week
Bacterial, Viral and Fungal Detection and Identification in Clinical Specimens Using NGS/sample ⁷	MSPT009	TBD	2-3 days
Test cancellation fee	MTCF001	TBD	NA
Miscellaneous fees	MMF001	Varies	NA
¹ Primers and probes available with Genereach.			
² Identifies all influenza virus A subtypes			
³ In development and available soon. Please call LADDL.			
⁴ Fees to be determined			
⁵ Some tests may be performed by another AAVLD accredited laboratory (additional referral fee may be applied).			
⁶ Test performed at Cornell University Animal Health Diagnostic Center. Prices for referral tests do not include lab accession and forwarding fees and are subject to change without notice. Turnaround times are dependent upon shipping time.			
⁷ Outsourced to an accredited laboratory.			
⁸ IHC staining charges are separate.			