

# Diagnostic Testing

## National Veterinary Services Laboratories - Ames, Iowa

Procedure	Specimens	Shipping Preservative	FY 2024 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
<b>African horse sickness** (Orbivirus)</b>							
ELISA	Serum	Ice pack	\$18.00	Call	2	DVL	Two ml minimum. Only for FAD investigations. Contact laboratory before shipment (515) 337-7551.
PCR	Whole blood, spleen, lung, lymph node	Ice pack	\$56.00	Call	2	DVL	Only for FAD investigations. Contact laboratory before shipment (515) 337-7551.
VI	Whole blood, spleen, lung, lymph node	Ice pack	\$52.00	Call	20	DVL	Only for FAD investigations. Contact laboratory before shipment (515) 337-7551.
<b>Aino**, Akabane**, or Schmallenberg** (Orthobunyaviruses)</b>							
VN	Serum	Ice pack	\$14.00	M, F	4	DVL	Two ml minimum. Contact laboratory before shipment (515) 337-7551. Userfees charged per strain. Orthobunyaviruses that can cause congenital malformations. NOTE: PCR also available for Schmallenberg.
<b>Anaplasmosis</b>							
CELISA	Serum	Ice pack	\$18.00	W	4	DBRL/SERO	Two ml minimum. Anaplasma marginale, cattle.

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<b>Anaplasmosis</b>							
CF	Serum	Ice pack	\$18.00	Th	4	DBRL/SERO	Two ml minimum. Anaplasma marginale, cattle.
<b>Anthrax</b>							
IDENT	Culture	None	\$101.00	M -F	7	DBPL/BI	Bacillus anthracis, contact laboratory for arrangements (515) 337-7565
ISOLATION	Blood	Clotted	\$101.00	M -F	7	DBPL/BI	Contact laboratory for arrangements (515) 337-7565
ISOLATION	Various	None	\$101.00	M - F	7	DBPL/BI	Contact laboratory for arrangements (515) 337-7565
<b>Aquaculture-related bacterial diseases</b>							
ISOLATION	Various	Ice Pack	\$40.00	Call	10	DBPL/BI	Contact laboratory for arrangements (515) 337-7565
<b>Aquaculture-related viral diseases</b>							
Various	Various	Various	\$112.00	Call	Varies	DVL	Contact laboratory for arrangements and pricing (515) 337-7551
<b>Aquaculture-wet lab studies</b>							
Various	Aquatic species	None	\$112.00	Call	Call	DVL	Modular system that can house a variety of species and experimental designs in a BSL2/3 environment. Contact laboratory for more details and pricing (515) 337-7551

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Procedure	Specimens	Shipping Preservative	FY 2024 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
<b>Avian adenovirus group I</b>							
VI	Tissue, swab	Dry ice	\$52.00	M - F	18-30	DVL	Quail Bronchitis, chicken embryo lethal orphan
<b>Avian adenovirus group III</b>							
HI	Serum	Ice pack	\$16.00	M - F	3	DVL	Adenovirus 127, Egg Drop Syndrome 1976, Duck Adenovirus1 (DAdV-1); 0.3 ml of sera (not whole blood) recommended
PCR	Tissue, swab	Dry ice	\$56.00	M - F	3	DVL	Spleen or kidney tissues; shell gland swabs; PCR validation in process
<b>Avian influenza (aka fowl plague, LPAI, HPAI; subtypes H5 and H7 are reportable**)</b>							
AGID	Serum	Ice pack	\$18.00	M - F	4	DVL	Two ml minimum; not recommended for waterfowl
HI	Serum	Ice pack	\$16.00	M - F	3	DVL	One ml of sera (not whole blood) recommended; sample should not exceed 1% of total body weight; contact NVSL regarding small birds. Sixteen H subtypes available, user fee is per H subtype.
IVPI	Virus	Dry ice	\$2,632.00	W	12	DVL	Contact laboratory for arrangements (515) 337-7551
RRT-PCR	Swab	Dry ice	\$56.00	M - F	3	DVL	Single assay will be charged 1/2 hr rate; if a 2nd assay is performed on the same sample using the same extracted nucleic acid the 2nd assay will be charged 1/4 hr rate. Refer to sample collection guidance WI-AV-0020 online.

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<b>Avian influenza (aka fowl plague, LPAI, HPAI; subtypes H5 and H7 are reportable**)</b>							
VI	Tissue, swab	Dry ice	\$52.00	M - F	18-30	DVL	Dry swabs are not acceptable, contact laboratory for further information (515) 337-7551. Refer to sample collection guidance WI-AV-0020 online.
<b>Avian metapneumovirus</b>							
ELISA	Serum	Ice pack	\$18.00	M - F	3	DVL	One ml minimum. Subtype A (UK strain), subtype B (Hungarian strain) and subtype C (US-Colorado strain, Colorado avian pneumovirus). One ELISA charge per subtype, 3 units billed per sample.
IFA	Serum	Ice pack	\$16.00	M - F	4	DVL	One ml minimum. Subtype A (UK strain), subtype B (Hungarian strain) and subtype C (US-Colorado strain, Colorado avian pneumovirus). One IFA charge per subtype, 3 units billed per sample.
RT-PCR	Swab	Dry ice	\$56.00	M - F	3-5	DVL	PCR will be run for Subtypes A, B, and C. Billed per assay, 2 units charged for A,B, and C per sample, as additional PCR assays within DVL on the same sample are charged at ¼ hour rate.
<b>Avian paramyxovirus serotype-1 (virulent viruses cause Newcastle disease**)</b>							
HI	Serum	Ice pack	\$16.00	M - F	3	DVL	One ml of sera (not whole blood) recommended; sample should not exceed 1% of total body weight; contact laboratory regarding small birds (515) 337-7551.

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<b>Avian paramyxovirus serotype-1 (virulent viruses cause Newcastle disease**)</b>							
ICPI	Virus	Dry ice	\$896.00	W	12	DVL	Contact laboratory for arrangements (515) 337-7551
RRT-PCR	Swab	Dry ice	\$56.00	M -F	3	DVL	Single assay will be charged 1/2 hr rate; if a 2nd assay is performed on the same sample using the same extracted nucleic acid the 2nd assay will be charged 1/4 hr rate. Refer to sample collection guidance WI-AV-0020 online.
VI	Hatching eggs	Ice pack	\$52.00	M - F	18-30	DVL	Do not freeze
VI	Tissue, swab	Dry ice	\$52.00	M - F	18-30	DVL	Dry swabs are not acceptable, contact laboratory for further information (515) 337-7551. Refer to sample collection guidance WI-AV-0020 online.

**Avian paramyxovirus serotypes 2-9**

HI	Serum	Ice pack	\$16.00	M - F	3	DVL	One ml of sera (not whole blood) recommended; sample should not exceed 1% of total body weight; contact NVSL regarding small birds. Specify serotype(s) of interest.
VI	Tissue, swab	Dry ice	\$52.00	M - F	18-30	DVL	Dry swabs are not acceptable, contact laboratory for further information (515) 337-7551. Refer to sample collection guidance WI-AV-0020 online.

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Procedure	Specimens	Shipping Preservative	FY 2024 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
<b>Avian reovirus</b>							
IFA	Serum	Ice pack	\$16.00	M - F	4	DVL	One ml minimum. Fahey-Crawley, infectious synovitis, viral arthritis.
<b>Bacterial antibiotic sensitivity</b>							
AST	Culture	None	\$28.00	M - F	2-3	DBPL/BI	Antibiotic sensitivity test of bacteria except for Mycobacterium species
<b>Bacterial identification</b>							
IDENT	Culture	None	\$58.00	M - F	2-7	DBPL/BI	
MALDI	Culture	None	\$8.00	M - F	2-7	DBPL/BI	MALDI Biotyper will be used for primary identification, followed by 16S rDNA sequencing (IDENT) if necessary. Please specify if you would like only MALDI Biotyper or 16s rDNA sequencing performed.
<b>Bacterial isolation</b>							
ISOLATION	Various	Various	\$40.00	M - F	2-7	DBPL/BI	
<b>Bluetongue (Orbivirus)</b>							
AGID	Serum	Ice pack	\$18.00	M - Th	3	DVL	Two ml minimum; known cross reactivity with antibodies to Epizootic hemorrhagic disease.
CELISA	Serum	Ice pack	\$18.00	M, W	3	DVL	Two ml minimum

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<b>Bluetongue (Orbivirus)</b>							
PCR	Blood, spleen	Ice pack	\$56.00	M, W	5	DVL	Four ml minimum. Refrigerate whole blood collected in EDTA. Do not freeze. Subsequent PCR assays conducted in DVL on the same sample will be charged ¼ hour each.
VI	Blood, spleen	Ice pack	\$52.00	M,W,Th,F	22	DVL	Four ml minimum. Submit whole blood collected in EDTA or heparin. Do not freeze. Ship refrigerated overnight.
VI	Semen	Dry ice	\$52.00	M,W,Th,F	22	DVL	Submit a minimum of 4 straws per collection; keep frozen; test 0.5 ml non-extended semen or equivalent.
<b>Botulism</b>							
ISOLATION	Various	Various	\$101.00	M - F	7	DBPL/BI	Clostridium botulinum, contact laboratory for arrangements (515) 337-7565
TOXIN TYPING	Various	Various	\$131.00	M - F	21	DBPL/BI	Clostridium botulinum, toxin typing, must be kept cold, contact laboratory for arrangements (515) 337-7565
<b>Bovine enterovirus</b>							
VI	Tissue	Ice pack	\$52.00	M -F	25	DVL	BEV
<b>Bovine herpesvirus 1</b>							
VI	Semen	Dry ice, LN2	\$52.00	M -F	21	DVL	Must be kept frozen

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<b>Bovine herpesvirus 1</b>							
VI	Tissue, blood	Ice pack	\$52.00	M - F	15	DVL	
VN	Serum	Ice pack	\$14.00	F	5	DVL	Two ml minimum
<b>Bovine herpesvirus 2</b>							
VI	Tissue	Ice pack	\$52.00	M -F	15	DVL	
VN	Serum	Ice pack	\$14.00	Th	5	DVL	Two ml minimum
<b>Bovine herpesvirus 4</b>							
IFA	Serum	Ice pack	\$16.00	M - F	5-7	DVL	Two ml minimum. DN599, MOVAR, bovine cytomegalovirus.
VI	Tissue	Ice pack	\$52.00	M -F	15	DVL	
<b>Bovine leukosis</b>							
ELISA	Serum	Ice pack	\$18.00	M, W	3	DVL	Two ml minimum
<b>Bovine papular stomatitis</b>							
IFA	Serum	Ice pack	\$16.00	M - F	5-7	DVL	Two ml minimum
VI	Tissue	Ice pack	\$52.00	M -F	15	DVL	

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<b>Bovine parvovirus</b>							
IFA	Serum	Ice pack	\$16.00	M - F	3	DVL	Two ml minimum
VI	Tissue	Ice pack	\$52.00	M -F	15	DVL	
<b>Bovine respiratory syncytial virus</b>							
VI	Tissue, swab	Ice pack	\$52.00	M - F	15	DVL	Special transport medium recommended. Contact laboratory for details (515) 337-7551.
VN	Serum	Ice pack	\$14.00	Th	7	DVL	Two ml minimum
<b>Bovine spongiform encephalopathy</b>							
ELISA	Fresh brain stem	Fresh chilled	\$0.00	M - F	2	DBPL/PATH	Fresh chilled samples are the best sample for BSE. Submit BSE samples in formalin ONLY when no fresh samples are available. Program Use Only.
HISTO	Brain stem	Formalin-fixed	\$0.00	M - F	10	DBPL/PATH	Brain stem essential for all submissions, only submit formalin-fixed tissue or blocks when fresh tissue is not available. Submit entire brain if possible.
IHC	Brain stem	Formalin-fixed	\$0.00	M - F	10	DBPL/PATH	Brain stem essential for all submissions, only submit formalin-fixed tissue or blocks when fresh tissue is not available. Submit entire brain if possible.

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<b>Bovine viral diarrhea</b>							
VI	Various	Ice pack	\$52.00	M - F	25	DVL	Tissue, swab, blood, or serum (DO NOT FREEZE WHOLE BLOOD)
VN	Serum	Ice pack	\$14.00	Th	5	DVL	Two ml minimum. Types I and II, user fee is per type.
<b>Brucella abortus</b>							
8% CARD	Serum	Ice pack	\$4.50	M - F	4	DBRL/SERO	Two ml minimum
BAPA	Serum	Ice pack	\$8.00	M - F	4	DBRL/SERO	Two ml minimum
BRT	Milk	Ice pack	\$40.00	M - F	2	DBPL/MB	Two ml minimum
CF COLD	Serum	Ice pack	\$18.00	M	4	DBRL/SERO	Two ml minimum
CF WARM	Serum	Ice pack	\$18.00	Th	4	DBRL/SERO	Two ml minimum
FPA	Serum	Ice pack	\$28.00	W, F	4	DBRL/SERO	Two ml minimum
HIRT	Milk	Ice pack	\$40.00	M - F	2	DBPL/MB	Five ml minimum
iELISA	Serum	Ice pack	\$18.00	W	4	DBRL/SERO	Two ml minimum
PLATE, SPT	Serum	Ice pack	\$7.75	W	4	DBRL/SERO	Two ml minimum
TUBE, STT	Serum	Ice pack	\$7.75	W	4	DBRL/SERO	Two ml minimum

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<b>Brucella canis</b>							
ME TUBE	Serum	Ice pack	\$7.75	M, W	4	DBRL/SERO	Two ml minimum
<b>Brucella melitensis</b>							
3% CARD	Serum	Ice pack	\$4.50	M - F	4	DBRL/SERO	Two ml minimum
<b>Brucella ovis</b>							
CF	Serum	Ice pack	\$18.00	Th	4	DBRL/SERO	Two ml minimum
ELISA	Serum	Ice pack	\$18.00	Th	4	DBRL/SERO	Two ml minimum
<b>Brucellosis</b>							
IDENT	Culture	None	\$58.00	M -F	7	DBPL/MB	
ISOLATION	Various	Dry ice	\$40.00	M - F	10	DBPL/MB	Tissue, milk, semen, etc.
PCR	Culture	None	\$58.00	M -F	2	DBPL/MB	
<b>Cache Valley (Orthobunyavirus)</b>							
VN	Serum	Ice pack	\$14.00	M, F	5	DVL	Two ml minimum
<b>Calicivirus</b>							
VI	Tissue	Ice pack	\$52.00	M -F	25	DVL	San Miguel sea lion virus

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<b>Calicivirus</b>							
VN	Serum	Ice pack	\$14.00	Th	5	DVL	Nine serotypes, user fee is per serotype
<b>Campylobacteriosis</b>							
IDENT	Culture	None	\$58.00	M - F	2-7	DBPL/BI	Contact laboratory for shipping conditions (515) 337-7565
ISOLATION	Tissue	Ice pack	\$40.00	M - F	2-7	DBPL/BI	
<b>Caprine arthritis encephalitis</b>							
ELISA	Serum	Ice pack	\$18.00	M, W	3	DVL	Two ml minimum
<b>Chicken anemia virus</b>							
PCR	Tissue	Dry ice	\$56.00	M -F	5	DVL	Additional processing fee applied if tissue collection is needed.
<b>Chlamydia spp.</b>							
CF	Serum	Ice pack	\$18.00	T, Th	4	DVL	Used for detection of pan-antichlamydial antibody and required for export testing where indicated by receiving country; not recommended for diagnostic cases in avian species.
PCR	Various	Ice pack	\$56.00	M - F	3-5	DVL	Specify abortus or psittaci; where not specified, assay will be selected appropriate to species sampled. Tissue, swab, or feces.

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<b>Chronic wasting disease</b>							
HISTO	Brain & lymph	Formalin-fixed	\$28.00	M - F	10	DBPL/PATH	Brain stem is essential for all submissions. When possible, retropharyngeal lymph node should also be submitted. Formalin-fixed tissue or paraffin-embedded tissue blocks.
IHC	Brain & lymph	Formalin-fixed	\$40.00	M - F	10	DBPL/PATH	Formalin-fixed tissue or paraffin-embedded tissue blocks. When possible, retropharyngeal lymph node and obex should be submitted.
<b>Clostridium chauvoei</b>							
IDENT	Culture	None	\$58.00	M - F	2-7	DBPL/BI	Blackleg
ISOLATION	Tissue	Ice pack	\$40.00	M - F	2-7	DBPL/BI	
<b>Clostridium perfringens</b>							
IDENT	Culture	Ice pack	\$58.00	M - F	2-7	DBPL/BI	Identification only, no toxin typing
ISOLATION	Tissue	Ice pack	\$40.00	M - F	2-7	DBPL/BI	Enterotoxemia
<b>Contagious ecthyma (parapoxvirus)</b>							
CF	Serum	Ice pack	\$18.00	T, Th	3	DVL	Two ml minimum. (aka orf, contagious pustular dermatitis, scabby mouth); for EM on non-FAD investigation cases refer to Electron microscopy for morphologic virus identification.

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<b>Contagious equine metritis</b>							
CF	Serum	Ice pack	\$18.00	M, Th	4	DBRL/SERO	Two ml minimum. Taylorella equigenitalis. Contact laboratory for details (515) 337-7563.
ISO & ID	Swab, culture	Ice pack	\$101.00	M - F	7	DBPL/BI	Taylorella equigenitalis. Swab must be received refrigerated within 48 hrs of collection and in Amies transport medium with charcoal
<b>Coronavirus</b>							
IFA	Serum	Ice pack	\$16.00	M - F	5-7	DVL	Bovine only
VI	Tissue, feces	Ice pack	\$52.00	M - F	15	DVL	Bovine or porcine
VN	Serum	Ice pack	\$14.00	M - F	4	DVL	Two ml minimum. Assay will not differentiate between TGE and PRCV antibodies.
<b>Corynebacterium</b>							
IDENT	Culture	None	\$58.00	M - F	2-7	DBPL/BI	
ISOLATION	Tissue	Ice pack	\$40.00	M - F	2-7	DBPL/BI	
<b>Coryza, infectious</b>							
IDENT	Culture	None	\$58.00	M - F	2-7	DBPL/BI	
ISOLATION	Tissue, swab	Ice pack	\$40.00	M - F	2-7	DBPL/BI	Haemophilus paragallinarum

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<b>Coryza, turkey</b>							
IDENT	Culture	None	\$58.00	M - F	2-7	DBPL/BI	Bordetella avium
ISOLATION	Tissue, swab	Ice pack	\$40.00	M - F	2-7	DBPL/BI	
<b>Cysticercosis</b>							
IDENT	Tissue	Formalin	\$0.00	M -F	2	DBRL/CASS	
<b>Dourine</b>							
CF	Serum	Ice pack	\$18.00	M - F	4	DBRL/SERO	Two ml minimum. Trypanosoma equiperdum.
<b>Duck viral enteritis</b>							
PCR	Tissue	Ice pack	\$56.00	M - F	3-5	DVL	Liver preferred, or contact laboratory for details (515) 337-7551
<b>Electron microscopy for morphologic virus identification</b>							
EM	Various	Dry ice	\$56.00	M - F	2-5	DVL	Virus isolates, intestinal contents, lesions. Contact laboratory for details (515)337-7551. Lesions suggestive of FMD must be submitted to FADDL.
<b>Encephalomyocarditis</b>							
VI	Tissue	Ice pack	\$52.00	M -F	15	DVL	Heart, lung, liver, or kidney

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Procedure	Specimens	Shipping Preservative	FY 2024 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
<b>Encephalomyocarditis</b>							
VN	Various	Ice pack	\$14.00	Tu	3	DVL	Two ml minimum. Serum.
<b>Epizootic hemorrhagic disease (Orbivirus)</b>							
AGID	Serum	Ice pack	\$18.00	M - Th	3	DVL	Two ml minimum; known cross reactivity with antibodies to Bluetongue virus.
PCR	Blood, spleen	Ice pack	\$56.00	M - F	2	DVL	Four ml minimum. Refrigerate whole blood collected in EDTA. Do not freeze. Subsequent PCR assays conducted in DVL on the same sample will be charged ¼ hour each.
VI	Blood, spleen	Ice pack	\$52.00	W,Th,F	22	DVL	Two ml minimum. Type 1, 2, and 6; user fee is per serotype. Ibaraki** (an EHD virus) is only for FAD investigations and animal importation where specified.
VI	Semen	Dry ice	\$52.00	W,Th,F	22	DVL	Submit a minimum of 4 straws per collection; keep frozen; test 0.5 ml non-extended semen or equivalent.
<b>Equine adenovirus</b>							
VN			\$0.00			DVL	This testing is no longer offered at NVSL.

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Procedure	Specimens	Shipping Preservative	FY 2024 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
<b>Equine encephalomyelitis</b>							
IgM ELISA	Serum* and whole blood	Ice pack	\$18.00	W	2	DVL	Two ml minimum. Equids only; recommended for neurologic horses. User fee is per strain, please specify EEE or VEE *Serum is required for the ELISA test. EDTA blood is requested for test improvement.
PCR	Brain	Ice pack	\$56.00	M, W	5	DVL	Include serum for IgM ELISA in parallel. May ship refrigerated overnight on gel ice pack. Additional PCR assays within DVL on the same sample are charged at ¼ hour each. VEE inquiries contact laboratory prior to shipment 515-337-7551.
PRNT	Serum	Ice pack	\$19.00	Tu	4	DVL	Two ml minimum. Equids will be tested for antibodies to EEE/WEE/VEE, user fee two units. For neurologic horses EEE IgM is recommended. The PRNT may be used for testing of nonequid species, requested by strain.
VI	Brain	Ice pack	\$52.00	W,Th,F	16	DVL	Fresh tissue should be sent on gel ice packs overnight. Whole blood should be shipped refrigerated. Optimal sample type is fresh brain tissue. PCR is recommended if West Nile virus is suspected.

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Procedure	Specimens	Shipping Preservative	FY 2024 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
<b>Equine herpesvirus 1 and 4</b>							
PCR	Tissue, nasal swab, whole blood	Ice pack	\$56.00	Varies	3	DVL	PCR for EHV-1 (includes distinction between ORF30 A2254/ORF30 G2254) and EHV-4. Ship whole blood refrigerated. Additional PCR assays within DVL on the same sample are charged at ¼ hour each.
<b>Equine herpesvirus 1 or 4</b>							
VI	Tissue, nasal swab, whole blood	Ice pack	\$52.00	W, Th	16	DVL	Ship whole blood refrigerated.
VN	Serum	Ice pack	\$14.00	M	5	DVL	Two ml minimum. Does not differentiate between herpesvirus 1 and 4.
<b>Equine herpesvirus 2</b>							
VI	Swabs, whole blood	Ice pack	\$52.00	W, Th	16	DVL	aka Cytomegalovirus, Ship whole blood refrigerated.
<b>Equine herpesvirus 3</b>							
VI	Lesions, swabs	Ice pack	\$52.00	W, Th	16	DVL	aka Coital exanthema.
<b>Equine infectious anemia</b>							
AGID	Serum	Ice pack	\$18.00	M - F	3	DVL	Two ml minimum. Confirmatory testing is not subject to user fees.

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Procedure	Specimens	Shipping Preservative	FY 2024 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
<b>Equine infectious anemia</b>							
ELISA	Serum	Ice pack	\$18.00	T, Th	3	DVL	Two ml minimum. Laboratory will select test if not specified. Contact laboratory for details (515) 337-7551.
<b>Equine influenza</b>							
HI	Serum	Ice pack	\$16.00	W	3	DVL	User fee is per antigen; three antigens are used for each HI.
PCR	Tissue, nasal swab	Ice pack	\$56.00	Varies	2	DVL	Deep nasal swab in virus transport media (e.g. BHI) is recommended.
VI	Tissue, nasal swab	Ice pack	\$52.00	M,W-F	22	DVL	Deep nasal swab in virus transport media (e.g. BHI) is recommended.
<b>Equine viral arteritis</b>							
ELISA	Serum	Ice pack	\$18.00	T	2	DVL	Two ml minimum
VI	Semen	Dry ice	\$52.00	M -F	15-20	DVL	Five ml minimum
VI	Tissue, swab, whole blood	Ice pack	\$52.00	M - F	16	DVL	Ship whole blood refrigerated.
VN	Serum	Ice pack	\$14.00	F	7	DVL	Two ml minimum. Note vaccination status. Vaccinated are tested 1:4 to 1:512 dilution. Unvaccinated/unreported will be tested at 1:4 and 1:8 only. QCF samples are tested by ELISA at additional user fee.

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<b>Erysipelas</b>							
IDENT	Culture	None	\$58.00	M - F	2-7	DBPL/BI	Erysipelothrix rhusiopathiae
ISOLATION	Tissue	Ice pack	\$40.00	M - F	2-7	DBPL/BI	
<b>Fetal bovine serum safety test</b>							
FBSS	Serum	Dry ice	\$1,160.00	Th	35-50	DVL	Bioassay conducted for trade, turnaround dependent upon animal availability; contact State or Federal veterinarian for requirements. Samples received Wed. or later will be tested the following week; no testing is initiated when Thurs. is a holiday.
<b>Fowl cholera</b>							
DNA FP	Culture	None	\$64.00	M - F	30-60	DBPL/BI	
GDPT	Culture	None	\$20.00	M -F	7	DBPL/BI	Somatic antigen typing
IDENT	Culture	None	\$58.00	M - F	2-7	DBPL/BI	
ISOLATION	Tissue	Ice pack	\$40.00	M - F	2-7	DBPL/BI	Pasteurella multocida
<b>Fowl pox</b>							
IFA	Serum	Ice pack	\$16.00	M - F	4	DVL	One ml minimum. Avian pox.
VI	Tissue	Dry ice	\$52.00	M -F	30	DVL	

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<b>Glanders</b>							
ELISA	Serum	Ice pack	\$18.00	M - F	4	DBRL/SERO	Two ml minimum. Burkholderia mallei.
IDENT	Culture	None	\$101.00	M -F	21	DBPL/BI	(Burkholderia mallei) Contact laboratory for arrangements (515) 337-7565
ISOLATION	Various	Ice pack	\$101.00	M - F	7	DBPL/BI	(Burkholderia mallei) Contact laboratory for arrangements (515) 337-7565
<b>Heartwater**</b>							
PCR	Blood-EDTA	Ice pack	\$56.00	M - F	4	DVL	Six ml minimum, must be received within 7 days of collection date. Testing done only for FAD investigations and importation of animals from other countries. Importation testing can take up to 14 days.
PCR	Tissue	Ice pack	\$56.00	M -F	4	DVL	
<b>Histopathology</b>							
HISTO	Fixed tissue	Formalin-fixed	\$28.00	M - F	5	DBPL/PATH	Cost per slide
<b>Import testing for avian-origin material</b>							
CI	Various	Dry ice	\$4,180.00	M - F	35	DVL	Twenty birds inoculated with material and tested for antibody to avian influenza, Newcastle disease, and adenovirus 127 at 21 dpi

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Procedure	Specimens	Shipping Preservative	FY 2024 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
<b>Infectious laryngotracheitis (aka Gallid herpesvirus 1)</b>							
IFA	Serum	Ice pack	\$16.00	M - F	4	DVL	One ml minimum
PCR	Tissue, swab	Ice pack	\$56.00	M - F	3-5	DVL	
VI	Tissue	Dry ice	\$52.00	M -F	30	DVL	
<b>Johne's disease</b>							
AGID	Serum	Ice pack	\$18.00	Call	4	DBRL/SERO	Two ml minimum. Contact laboratory for arrangements (515) 337-7563.
CF	Serum	Ice pack	\$18.00	Tu	4	DBRL/SERO	Two ml minimum. Mycobacterium paratuberculosis.
ELISA	Serum	Ice pack	\$18.00	Th	4	DBRL/SERO	Two ml minimum
FECAL PCR	Feces	Ice pack	\$33.00	M -F	14	DBPL/MB	Two gram minimum
IS1311	Culture, tissue	None	\$101.00	M - F	5	DBPL/MB	IS1311 Sheep and cattle paratuberculosis strain differentiation
ISO & ID	Tissue, feces, culture	Ice pack	\$79.00	M - W	56	DBPL/MB	Bactec 460, Trek ESP, MGIT 960, HEY
<b>Leptospirosis</b>							
FAT	Tissue, urine	Ice pack	\$20.00	M - F	2-3	DBPL/BI	Samples should be shipped overnightthe same day they are collected

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Procedure	Specimens	Shipping Preservative	FY 2024 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
<b>Leptospirosis</b>							
ISOLATION	Kidney, liver, urine fresh not frozen	Ice pack	\$56.00	M - F	30-90	DBPL/BI	Option available to culture for research purposes. Contact laboratory prior to submitting sample (515) 337-6218.
MAT	Serum	Ice pack	\$26.00	W	2-7	DBPL/BI	Samples must be received by 12:00 pm on Wednesday for testing; additional charge for more than 5 serovars
PCR	Tissue, urine, blood	Ice pack	\$28.00	M-F	2-3	DBPL/BI	Samples should be shipped overnight the same day they are collected, delay in shipping the samples will result in higher lower limit of detection (LLD)
<b>Listeriosis</b>							
IDENT	Culture	None	\$58.00	M - F	2-7	DBPL/BI	Listeria spp.
ISOLATION	Tissue	Ice pack	\$40.00	M - F	7-42	DBPL/BI	
<b>Malignant catarrhal fever</b>							
IPT	Serum	Ice pack	\$17.00	W	5-7	DVL	Two ml minimum. The IPT will be conducted if the paperwork submitted doesn't specify a test. All antibody positive IPT samples will be tested by the VN, resulting in two test charges (IPT and VN)

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Procedure	Specimens	Shipping Preservative	FY 2024 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
<b>Malignant catarrhal fever</b>							
PCR	Blood-EDTA	Ice pack	\$56.00	M - F	7-14	DVL	Three ml minimum, must be received within 7 days of collection date. Differentiates between alcelaphine herpesvirus 1 and ovine herpesvirus 2
PCR	Tissue	Ice pack	\$56.00	M - F	7-14	DVL	Differentiates between alcelaphine herpesvirus 1 and ovine herpesvirus 2
VN	Serum	Ice pack	\$14.00	Th	7	DVL	Two ml minimum. The IPT will be conducted if the paperwork submitted doesn't specify the VN test. All antibody positive IPT samples will be tested by the VN, resulting in two test charges (IPT and VN)
<b>Marek's disease</b>							
			\$0.00			DVL	This testing is no longer offered at NVSL.
<b>Melioidosis</b>							
IDENT	Culture	None	\$101.00	M -F	21	DBPL/BI	(Burkholderia pseudomallei) Contact laboratory for arrangements (515) 337-7565
ISOLATION	Various	Ice pack	\$101.00	M - F	7	DBPL/BI	(Burkholderia pseudomallei) Contact laboratory for arrangements (515) 337-7565
<b>Mycobacterium</b>							
AFS	Fluid, culture	Various	\$28.00	M -F	2	DBPL/MB	Direct acid fast stain on clinical specimens

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<b>Mycobacterium</b>							
AST	Culture	None	\$114.00	Call	28	DBPL/MB	Mycobacterium tuberculosis complex, antibiotic sensitivity test performed on M. tuberculosis complex only, contact laboratory for test schedule (515)337-7388
DNA PROBE	Culture	Various	\$89.00	M -F	2	DBPL/MB	DNA probe
DPP-Cervid	Serum	Ice pack	\$12.00	M - F	5	DBRL/SERO	DPP test for white-tail deer, elk, red deer, reindeer, fallow, sika, and mule deer only. Contact laboratory for test availability prior to submitting sample (515) 337-7563.
DPP-Elephant	Serum	Ice pack	\$12.00	M - F	5	DBRL/SERO	DPP test for elephant. Contact laboratory for test availability prior to submitting sample (515) 337-7563.
GAMMA INF	Heparinized blood	None	\$74.00	T, W, Th	4	DBRL/SERO	Sample submission must be coordinated ahead of time through VS office. Sample must be received at NVSL within 30 hours of sample collection. Contact laboratory for details at VS.DB.NVSL.DBRL.Sero.Mgmt@usda.gov or by phone at (515) 337-7563.
HISTO	Block containing lesion	Formalin-fixed	\$28.00	M - F	1	DBPL/PATH	Formalin-fixed tissue or paraffin-embedded tissue block. Cost is per slide.
IDENT	Culture	None	\$58.00	M -F	56	DBPL/MB	Identification of acid fast bacteria includes biochemical analysis and 16s rDNA sequencing analysis

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Procedure	Specimens	Shipping Preservative	FY 2024 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
<b>Mycobacterium</b>							
ISOLATION	Tissue, swabs, washes	Various	\$40.00	M - F	60	DBPL/MB	Contact laboratory for details (515) 337-7388. Shipping preservative - ice pack or Na Borate
PCR	Fixed tissue containing lesion	Formalin-fixed	\$112.00	M - F	10	DBPL/PATH	Formalin-fixed tissue or paraffin block should not be decalcified. Tissue should be in formalin less than 10 days. Acid fast bacteria must be present to perform PCR testing.
TRUNKW	Fluid	Ice pack	\$40.00	M -F	60	DBPL/MB	Elephant trunk washings - See Guide for the control of tuberculosis in elephants. 2003. Available at <a href="http://www.elephantcare.org">www.elephantcare.org</a>
<b>Mycoplasma</b>							
HI	Serum	Ice pack	\$16.00	M - F	5	DBPL/BI	Two ml minimum. Mycoplasma gallisepticum, M. meleagridis, and M. synoviae, user fee is per species
PLATE	Serum	Ice pack	\$7.75	M - F	3	DBPL/BI	Two ml minimum. Mycoplasma gallisepticum, M. meleagridis, and M. synoviae, user fee is per species
<b>Ornithobacterium rhinotracheale</b>							
IDENT	Culture	None	\$58.00	M - F	2-7	DBPL/BI	ORT
ISOLATION	Various	Various	\$40.00	M - F	3-14	DBPL/BI	ORT

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<b>Ovine progressive pneumonia</b>							
ELISA	Serum	Ice pack	\$18.00	W	3	DVL	Two ml minimum (aka Maedi-Visna)
<b>Parainfluenza-3</b>							
VI	Tissue, swab	Ice pack	\$52.00	M - F	15	DVL	Nasal swab. Shipping fever, virus pneumonia
VN	Serum	Ice pack	\$14.00	Th	7	DVL	
<b>Parasites, blood</b>							
MX	Whole blood	EDTA	\$31.00	M - F	3	DBRL/PARA	Examination of Giemsa-stained blood films for Anaplasma, Babesia, Theileria, trypanosomes. Send whole blood in EDTA on ice packs, chilled, but not frozen.
<b>Parasites, external</b>							
IDENT	Parasite	Alcohol	\$0.00	M - F	3	DBRL/PARA	Preserve in ethanol or isopropyl alcohol. ID to species: ticks, fly larvae, mange mites, lice, fleas.
<b>Paratyphoid</b>							
TUBE	Serum	Ice pack	\$7.75	Tu, Th	4	DBRL/SERO	Two ml minimum. Salmonella abortus-equi, equidae.

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<b>Piroplasmosis, bovine</b>							
PCR	Whole blood	Ice pack	\$56.00	W	4	DBRL/SERO	Two ml minimum. Babesia bovis and B. bigemina, contact laboratory for details (515) 337-7563.
<b>Piroplasmosis, equine</b>							
CELISA	Serum	Ice pack	\$18.00	M - F	4	DBRL/SERO	Two ml minimum. Babesia caballi and Babesia (Theileria) equi, user fee is per species.
CF	Serum	Ice pack	\$18.00	M - F	4	DBRL/SERO	Two ml minimum. Babesia caballi and Babesia (Theileria) equi, user fee is per species.
IFA	Serum	Ice pack	\$16.00	Th	4	DBRL/SERO	Two ml minimum. Babesia caballi and Babesia (Theileria) equi, user fee is per species.
WBLOT	Serum	Ice pack	\$33.00	M - F	4	DBRL/SERO	Two ml minimum. Babesia caballi only. Contact laboratory for approval (515) 337-7563.
<b>Porcine hemagglutinating encephalomyelitis virus</b>							
HI	Serum	Ice pack	\$16.00	M - F	2	DVL	Two ml minimum
VI	Tissue	Ice pack	\$52.00	M -F	15	DVL	Lung or brain
<b>Porcine parvovirus</b>							
HI	Various	Ice pack	\$16.00	Th	2	DVL	Serum or fetal fluid--two ml minimum
VI	Tissue	Ice pack	\$52.00	M -F	25	DVL	

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<b>Porcine reproductive and respiratory syndrome</b>							
ELISA	Serum	Ice pack	\$18.00	M - F	3	DVL	PRRS
IFA	Serum	Ice pack	\$16.00	M - F	3	DVL	US vs. European differentiation, two user fee charges per serum. 3 day time frame for results is not applicable to export testing-time line negotiated. Contact laboratory (515) 337-7551.
VI	Tissue, serum	Ice pack	\$52.00	M - Th	16	DVL	Two user fee charges if isolation on MARC-145 & SAM cell cultures. 16 day time frame for results is not applicable to export testing-time line negotiated. Test set up can not occur on Fridays or the day before a holiday. Contact laboratory (515) 337-7551
<b>Porcine rubulavirus**</b>							
HI	Serum	Ice pack	\$16.00	M - F	2	DVL	a/k/a Blue eye paramyxovirus, Two ml minimum. porcine BEP
VI	Tissue, swab	Ice pack	\$52.00	M - F	21	DVL	a/k/a Blue eye paramyxovirus
<b>Porcine sapelovirus</b>							
IFA	Serum	Ice pack	\$16.00	M - F	5-7	DVL	Formerly Porcine enterovirus A or PEV 8
VI	Tissue	Ice pack	\$52.00	M -F	25	DVL	Formerly Porcine enterovirus A or PEV 8

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<b>Porcine teschovirus</b>							
IFA	Serum	Ice pack	\$16.00	M - F	5-7	DVL	Seven groups, user fee is per group, (formerly PEV 1-7)
VI	Tissue	Ice pack	\$52.00	M -F	25	DVL	SMEDI (Stillbirth, mummification, embryonic death & infertility), formerly PEV 1-7 & porcine polioencephalomyelitis, if suspect Teschan disease (PTV1) contact state of federal vet before shipment
<b>Pox</b>							
EM	Tissue	Ice pack	\$56.00	M -F	5	DVL	ID virus in lesion
VI	Tissue	Ice pack	\$52.00	M -F	21	DVL	
<b>Pseudocowpox</b>							
IFA	Serum	Ice pack	\$16.00	M - F	3	DVL	Two ml minimum
VI	Tissue	Ice pack	\$52.00	M -F	21	DVL	
<b>Pseudorabies</b>							
ELISA	Serum	Ice pack	\$18.00	M - F	2	DVL	Two ml minimum. Screening or differential for gB. Aujeszky's disease, infectious bulbar paralysis, mad itch.
VI	Tissue	Ice pack	\$52.00	M -F	15	DVL	

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Procedure	Specimens	Shipping Preservative	FY 2024 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
<b>Pseudorabies</b>							
VN	Serum	Ice pack	\$14.00	F	3	DVL	Two ml minimum
<b>Psittacine herpesvirus</b>							
IFA	Serum	Ice pack	\$16.00	M - F	4	DVL	One ml minimum
<b>Q-fever</b>							
CF	Serum	Ice pack	\$18.00	Tu, Th	4	DVL	Two ml minimum (aka Coxiella burnetti)
ELISA	Serum	Ice pack	\$18.00	M, W	3	DVL	Two ml minimum (aka Coxiella burnetti)
<b>Reovirus</b>							
IFA	Serum	Ice pack	\$16.00	M - F	5-7	DVL	
VI	Tissue	Ice pack	\$52.00	M - F	15	DVL	Porcine only
<b>Rotavirus</b>							
EM	Feces	Ice pack	\$56.00	M - F	5	DVL	Identification
IFA	Serum	Ice pack	\$16.00	M - F	3	DVL	Bovine and porcine
VI	Tissue, feces	Ice pack	\$52.00	M - F	21	DVL	

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Procedure	Specimens	Shipping Preservative	FY 2024 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
<b>Salmonella (all subspecies)</b>							
ISOLATION	Various	Various	\$40.00	M - F	7	DBPL/BI	
SEROTYP	Culture	None	\$40.00	M -F	14	DBPL/BI	
<b>Salmonella Enteritidis</b>							
SEROTYP	Culture	None	\$28.00	M - F	2-3	DBPL/BI	Accelerated Salmonella Enteritidis Rule Out
<b>Salmonella Pullorum-Typhoid</b>							
AGGL	Serum	Ice pack	\$7.75	M - Th	3	DBPL/BI	
<b>Salmonella Typhimurium</b>							
AGGL	Serum	Ice pack	\$7.75	M - Th	3	DBPL/BI	
<b>Schmallenberg** (Orthobunyavirus)</b>							
PCR	Fetal / newborn brain, placenta, umbilical tissue	Ice pack	\$56.00	Call	3	DVL	Only for FAD investigations. Contact laboratory before shipment (515) 337-7551. Orthobunyavirus that can cause congenital malformations.
<b>Scrapie</b>							
HISTO	Brain stem	Formalin-fixed	\$0.00	M - F	5	DBPL/PATH	Formalin-fixed tissue or paraffin-embedded block. Submit entire brain if possible.

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Procedure	Specimens	Shipping Preservative	FY 2024 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
<b>Scrapie</b>							
IHC	Brain & lymph	Formalin-fixed	\$0.00	M - F	10	DBPL/PATH	Formalin-fixed tissue or paraffin-embedded block. Brain stem is essential for all submissions. When possible, retropharyngeal lymph node, tonsil, and cerebellum should also be submitted.
PrP-Codon	Whole blood, tissue, FTA card	None	\$33.00	Varies	10	DBPL/MB	Scrapie susceptibility genotyping for sheep and goats. All codons are tested automatically. See approved laboratories list if single codon testing is desired. Contact the laboratory for details (515) 337-7388.
<b>Sequencing identification/characterization</b>							
SEQUENCING	Various	Various	Varies	Varies	Varies	ALL	Whole and partial genome sequencing and analysis are available. Pricing varies based on sample and analysis. Contact appropriate laboratory for sample requirements, pricing and scheduling. Bacteriology (515) 337-7388, Virology (515) 337-7551.
<b>Serum screen</b>							
CHEM	Serum, blood	Ice pack	\$0.00	M -F	Varies	DBRL/CASS	Contact laboratory for details (515) 337-7065
<b>Streptococcus</b>							
IDENT	Culture	None	\$58.00	M - F	2-7	DBPL/BI	Including strangles

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Procedure	Specimens	Shipping Preservative	FY 2024 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
<b>Streptococcus</b>							
ISOLATION	Tissue, swab	Ice pack	\$40.00	M - F	2-7	DBPL/BI	Including strangles
<b>Swine influenza</b>							
HI	Serum	Ice pack	\$16.00	M - W	3	DVL	Multiple serotypes, user fee is per serotype
HI/NI	Viral isolates	Dry ice	\$16.00	M - F	5	DVL	Subtyping SIV isolates. User fee will be two HI charges per sample. If isolate is of insufficient viral titer, virus isolation charges may apply instead of HI charges.
rRT-PCR	Viral isolate, swab, lung tissue	Various	\$56.00	M - F	5	DVL	Influenza A matrix PCR. If shipping frozen samples, ship on dry ice
rRT-PCR	Viral isolate, swab, lung tissue	Various	\$56.00	M - F	5	DVL	H1/H3 and N1/N2 subtyping only. If shipping frozen samples, ship on dry ice
VI	Tissue	Ice pack	\$52.00	M -F	21	DVL	
<b>Transmissible gastroenteritis</b>							
VN	Serum	Ice pack	\$14.00	M - F	5	DVL	Two ml minimum

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Procedure	Specimens	Shipping Preservative	FY 2024 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
<b>Tuberculosis (See also Mycobacterium)</b>							
DPP-Cervid	Serum	Ice pack	\$12.00	M - F	5	DBRL/SERO	DPP test for white-tail deer, elk, red deer, reindeer, fallow, sika, and mule deer only. Contact laboratory for test availability prior to submitting sample (515) 337-7563.
DPP-Elephant	Serum	Ice pack	\$12.00	M - F	5	DBRL/SERO	DPP test for elephant. Contact laboratory for test availability prior to submitting sample (515) 337-7563.
GAMMA INF	Heparinized blood	None	\$74.00	T, W, Th	4	DBRL/SERO	Sample submission must be coordinated ahead of time through VS office. Sample must be received at NVSL within 30 hours of sample collection. Contact laboratory for details at VS.DB.NVSL.DBRL.Sero.Mgmt@usda.gov or by phone at (515) 337-7563.

**Tularemia**

IDENT	Culture	None	\$101.00	M -F	7	DBPL/BI	Contact laboratory for arrangements (515) 337-7565
ISOLATION	Tissue	Ice pack	\$101.00	M -F	7	DBPL/BI	Contact laboratory for arrangements (515) 337-7565
PLATE	Serum	Ice pack	\$7.75	M	4	DBRL/SERO	Francisella tularensis, Two ml minimum. Contact laboratory for details (515) 337-7563.

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Procedure	Specimens	Shipping Preservative	FY 2024 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
<b>Vesicular stomatitis</b>							
CELISA	Serum	Ice pack	\$18.00	M - F	2	DVL	Two ml minimum. New Jersey and Indiana types, two user fee charges per serum. Positive samples will be tested by CF at additional charge.
CF	Serum	Ice pack	\$18.00	M - F	2	DVL	Two ml minimum. New Jersey and Indiana types, two user fee charges per serum
PCR	Tissue, vesicular fluid, lesion swab	Ice pack	\$56.00	M - F	7	DVL	RUMINANT AND PORCINE SAMPLES--SEND TO FADDL; EQUINE SAMPLES--SEND TO DVL. Notify State veterinarian/Federal veterinarian.
VI	Tissue, vesicular fluid, lesion swab	Ice pack	\$52.00	M - F	8	DVL	RUMINANT AND PORCINE SAMPLES--SEND TO FADDL; EQUINE SAMPLES--SEND TO DVL. Notify State veterinarian/Federal veterinarian.
VN	Serum	Ice pack	\$14.00	T, F	3-5	DVL	Two ml minimum. Vesicular stomatitis New Jersey and Indiana types, two user fee charges per serum. The starting dilution for this assay is 1:32 unless otherwise specified. Samples positive at $\geq 32$ will be tested by cELISA at additional charge.
<b>Vibriosis</b>							
IDENT	Culture	None	\$58.00	M - F	2-7	DBPL/BI	
ISOLATION	Culture	None	\$40.00	M - F	7	DBPL/BI	Vibrio spp.

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Procedure	Specimens	Shipping Preservative	FY 2024 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
<b>Viral abortion</b>							
VI	Various	Ice pack	\$52.00	M - F	14-28	DVL	Serum or fetal fluid--Two ml minimum. and tissue. Bovine and porcine
<b>West nile virus</b>							
IgM ELISA	Serum	Ice pack	\$18.00	W	3	DVL	Two ml minimum; for equids only and recommended for neurologic cases
PCR	Brain	Dry ice	\$56.00	T, Th	5	DVL	May ship sample refrigerated overnight with ice pack. Additional PCR assays within DVL on the same sample are charged at ¼ hour each.
PRNT	Serum	Ice pack	\$19.00	F	5	DVL	Two ml minimum. For neurologic horses IgM is recommended. The PRNT may be used for testing of non-equid species. Typically tested at 1:10 and 1:100 dilutions. Contact the laboratory at 515-337-7551 for endpoint titration options.
<b>Yersinia spp.</b>							
IDENT	Culture	None	\$58.00	M - F	2-7	DBPL/BI	Yersiniosis, not plague. Contact laboratory for plague (515) 337-7565.
ISOLATION	Various	Ice pack	\$40.00	M - F	2-7	DBPL/BI	

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