

DIAGNOSTIC TESTING

PROVIDED BY THE

NATIONAL VETERINARY SERVICES LABORATORIES

NATIONAL CENTERS FOR ANIMAL HEALTH

For specific incoming sample notices, testing or reporting inquiries, please direct those questions to the appropriate laboratory, as listed in the *Testing Lab* column

- For **DVL** testing, direct your inquiries to: NVSL.DVL.TeamLeads@usda.gov
- For **FADDL** testing, direct your inquiries to: FAD.Submissions@usda.gov
- For **DBRL/SERO** testing, direct your inquiries to: NVSL.Serology@usda.gov
- For **DBPL/MB** testing, direct your inquiries to: NVSL-MB.caseManager@usda.gov
- For **DBPL/BI** testing, direct your inquiries to: NVSL.Bacteriology.Case.Manager@usda.gov
- For **DBPL/PATH** testing, direct your inquiries to: Pathology.Case.Manager@usda.gov

*Test start date may be dependent on day of week and time of day samples arrive at the specific testing laboratory – not the National Veterinary Services Laboratories as a whole. If results are required by a specific date, please contact NVSL prior to shipping.

** Indicates the disease is an exotic disease. Suspect cases must be reported to the state or federal veterinarian before sample shipment to NVSL.

Final test reports will be released when all testing has been completed.

Diagnostic Testing

National Veterinary Services Laboratories - Ames, Iowa

Procedure	Specimens	Shipping Preservative	FY 2026 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
African horse sickness** (Orbivirus)							
ELISA	Serum	Ice pack	\$49.00	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	\$72.00	Call	2	DVL	Only for FAD investigations. Contact laboratory before shipment (515) 337-7551.
VI	Whole blood, spleen, lung, lymph node	Ice pack	\$108.00	Call	20	DVL	Only for FAD investigations. Contact laboratory before shipment (515) 337-7551.
Aino**, Akabane**, or Schmallenberg** (Orthobunyaviruses)							
VN	Serum	Ice pack	\$52.00	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.
Anaplasmosis							
CELISA	Serum	Ice pack	\$49.00	W	4	DBRL/SERO	Two ml minimum. Anaplasma marginale, cattle.
CF	Serum	Ice pack	\$52.00	Th	4	DBRL/SERO	Two ml minimum. Anaplasma marginale, cattle.
Anthrax							
IDENT	Culture	None	\$215.00	M -F	7	DBPL/BI	Bacillus anthracis, contact laboratory for arrangements (515) 337-7526

Procedure	Specimens	Shipping Preservative	FY 2026 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
Anthrax							
ISOLATION	Blood	Clotted	\$215.00	M -F	7	DBPL/BI	Contact laboratory for arrangements (515) 337-7526
ISOLATION	Various	None	\$215.00	M - F	7	DBPL/BI	Contact laboratory for arrangements (515) 337-7526
Aquaculture-related bacterial diseases							
ISOLATION	Various	Ice Pack	\$81.00	Call	10	DBPL/BI	Contact laboratory for arrangements (515) 337-7526
Aquaculture-related viral diseases							
Various	Various	Various	\$143.00	Call	Varies	DVL	Contact laboratory for arrangements and pricing (515) 337-7551
Aquaculture-wet lab studies							
Various	Aquatic species	None	\$143.00	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
Avian adenovirus group I							
VI			N/A			DVL	Effective July 1, 2025, this testing is available for referral testing only – see the general entry for Virus isolation.
Avian adenovirus group III							
HI	Serum	Ice pack	\$52.00	M - F	3	DVL	Adenovirus 127, Egg Drop Syndrome 1976, Duck Adenovirus1 (DAdV-1); 0.3 ml of sera (not whole blood) recommended

Procedure	Specimens	Shipping Preservative	FY 2026 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
Avian adenovirus group III							
PCR	Tissue, swab	Dry ice	\$72.00	M - F	3	DVL	Spleen or kidney tissues; shell gland swabs
Avian influenza (aka fowl plague, LPAI, HPAI; subtypes H5 and H7 are reportable**)							
AGID	Serum	Ice pack	\$33.00	M - F	4	DVL	Two ml minimum; not recommended for waterfowl
HI	Serum	Ice pack	\$52.00	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	\$3,384.00	W	12	DVL	Contact laboratory for arrangements (515) 337-7551
RRT-PCR	Swab	Dry ice	\$72.00	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	Tissue, swab	Dry ice	\$108.00	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 metapneumovirus							
ELISA	Serum	Ice pack	\$49.00	M - F	3-5	DVL	One ml minimum. Subtype A, subtype B, and subtype C. One ELISA charge per subtype, 3 units billed per sample. All ELISA positive samples will be tested by the IFA, resulting in an additional 3 days total estimated turnaround time.

Procedure	Specimens	Shipping Preservative	FY 2026 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
Avian metapneumovirus							
IFA	Serum	Ice pack	\$52.00	M - F	3-5	DVL	One ml minimum. Subtype A, subtype B, and subtype C. One IFA charge per subtype, 3 units billed per sample. All ELISA positive samples will be tested by the IFA, resulting in an additional 3 days total estimated turnaround time.
RT-PCR	Swab	Dry ice	\$72.00	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.
Avian paramyxovirus serotype-1 (virulent viruses cause Newcastle disease**)							
HI	Serum	Ice pack	\$52.00	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.
ICPI	Virus	Dry ice	\$1,440.00	W	12	DVL	Contact laboratory for arrangements (515) 337-7551
RRT-PCR	Swab	Dry ice	\$72.00	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	Tissue, swab	Dry ice	\$108.00	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.

Procedure	Specimens	Shipping Preservative	FY 2026 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
Avian paramyxovirus serotypes 1-9							
VI			N/A			DVL	Effective July 1, 2025, this testing is available for referral testing only--see the general entry for Virus isolation.
Avian paramyxovirus serotypes 2-3							
HI	Serum	Ice pack	\$52.00	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.
Bacterial antibiotic sensitivity							
AST	Culture	None	\$36.00	M - F	2-3	DBPL/BI	Antibiotic sensitivity test of bacteria except for Mycobacterium species
Bacterial identification							
IDENT	Culture	None	\$124.00	M - F	2-7	DBPL/BI	
MALDI	Culture	None	\$36.00	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.
Bacterial isolation							
ISOLATION	Various	Various	\$81.00	M - F	2-7	DBPL/BI	
Bluetongue (Orbivirus)							
AGID			N/A			DVL	This testing is no longer offered at NVSL effective July 1, 2025.

Procedure	Specimens	Shipping Preservative	FY 2026 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
Bluetongue (Orbivirus)							
CELISA	Serum	Ice pack	\$49.00	M, W	3	DVL	Two ml minimum
PCR	Blood, spleen	Ice pack	\$72.00	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	\$108.00	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	\$108.00	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.
Botulism							
ISOLATION	Various	Various	\$215.00	M - F	7	DBPL/BI	Clostridium botulinum, contact laboratory for arrangements (515) 337-7526
TOXIN TYPING	Various	Various	\$404.00	M - F	21	DBPL/BI	Clostridium botulinum, toxin typing, must be kept cold, contact laboratory for arrangements (515) 337-7526
Bovine enterovirus							
VI			N/A			DVL	Effective July 1, 2025, this testing is available for referral testing only – see the general entry for Virus isolation.
Bovine herpesvirus 1							
VI			N/A			DVL	Effective July 1, 2025, this testing is available for referral testing only – see the general entry for Virus isolation.

Procedure	Specimens	Shipping Preservative	FY 2026 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
Bovine herpesvirus 2							
VI			N/A			DVL	Effective July 1, 2025, this testing is available for referral testing only – see the general entry for Virus isolation.
Bovine herpesvirus 4							
VI			N/A			DVL	Effective July 1, 2025, this testing is available for referral testing only – see the general entry for Virus isolation.
Bovine papular stomatitis							
IFA	Serum	Ice pack	N/A	M - F	5-7	DVL	Two ml minimum
VI			N/A			DVL	Effective July 1, 2025, this testing is available for referral testing only – see the general entry for Virus isolation.
Bovine parainfluenza-3							
VI			N/A			DVL	Effective July 1, 2025, this testing is available for referral testing only – see the general entry for Virus isolation.
Bovine parvovirus							
VI			N/A			DVL	Effective July 1, 2025, this testing is available for referral testing only – see the general entry for Virus isolation.
Bovine respiratory syncytial virus							
VI			N/A			DVL	Effective July 1, 2025, this testing is available for referral testing only – see the general entry for Virus isolation.

Procedure	Specimens	Shipping Preservative	FY 2026 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
Bovine spongiform encephalopathy							
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.
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.
Bovine viral diarrhea							
VI	Various	Ice pack	\$108.00	M - F	25	DVL	Tissue, swab, blood, or serum (DO NOT FREEZE WHOLE BLOOD)
Brucella abortus							
8% CARD	Serum	Ice pack	\$8.75	M - F	4	DBRL/SERO	Two ml minimum
BAPA	Serum	Ice pack	\$17.00	M - F	4	DBRL/SERO	Two ml minimum
BRT	Milk	Ice pack	\$84.00	M - F	2	DBPL/MB	Two ml minimum
CF COLD	Serum	Ice pack	\$52.00	M	4	DBRL/SERO	Two ml minimum
CF WARM	Serum	Ice pack	\$52.00	Th	4	DBRL/SERO	Two ml minimum
FPA	Serum	Ice pack	\$36.00	W, F	4	DBRL/SERO	Two ml minimum
HIRT	Milk	Ice pack	\$81.00	M - F	2	DBPL/MB	Five ml minimum
iELISA	Serum	Ice pack	\$49.00	W	4	DBRL/SERO	Two ml minimum

Procedure	Specimens	Shipping Preservative	FY 2026 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
Brucella abortus							
PLATE, SPT	Serum	Ice pack	\$17.00	W	4	DBRL/SERO	Two ml minimum
TUBE, STT	Serum	Ice pack	\$17.00	W	4	DBRL/SERO	Two ml minimum
Brucella canis							
ME TUBE	Serum	Ice pack	\$17.00	M, W	4	DBRL/SERO	Two ml minimum
Brucella melitensis							
3% CARD	Serum	Ice pack	\$8.75	M - F	4	DBRL/SERO	Two ml minimum
Brucella ovis							
ELISA	Serum	Ice pack	\$49.00	Th	4	DBRL/SERO	Two ml minimum
Brucellosis							
IDENT	Culture	None	\$124.00	M - F	7	DBPL/MB	PCR
ISOLATION	Various	Dry ice	\$81.00	M - F	10	DBPL/MB	Tissue, milk, semen, etc.
Cache Valley (Orthobunyavirus)							
VN			N/A			DVL	This testing is no longer offered at NVSL effective July 1, 2025.
Calicivirus							
VI			N/A			DVL	Effective July 1, 2025, this testing is available for referral testing only – see the general entry for Virus isolation.

Procedure	Specimens	Shipping Preservative	FY 2026 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
Campylobacteriosis							
IDENT	Culture	None	\$124.00	M - F	2-7	DBPL/BI	Contact laboratory for shipping conditions (515) 337-7526
ISOLATION	Tissue	Ice pack	\$81.00	M - F	2-7	DBPL/BI	
Chicken anemia virus							
PCR	Tissue	Dry ice	\$72.00	M -F	5	DVL	Additional processing fee applied if tissue collection is needed.
Chlamydia spp.							
CF	Serum	Ice pack	\$52.00	Th	4-8	DVL	Used for detection of pan-antichlamydial antibody and required for export testing where indicated by receiving country; not recommended for diagnostic cases in any species.
PCR	Various	Ice pack	\$72.00	M - F	3-5	DVL	Specify abortus or psittaci; where not specified, assay will be selected appropriate to species sampled. Tissue, swab, or feces.
Chronic wasting disease							
IHC	Brain & lymph	Formalin-fixed	\$72.00	M - F	10	DBPL/PATH	Formalin-fixed tissue or paraffin-embedded tissue blocks. When possible, retropharyngeal lymph node and obex should be submitted.
Clostridium chauvoei							
IDENT	Culture	None	\$124.00	M - F	2-7	DBPL/BI	Blackleg
ISOLATION	Tissue	Ice pack	\$81.00	M - F	2-7	DBPL/BI	

Procedure	Specimens	Shipping Preservative	FY 2026 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
Clostridium perfringens							
IDENT	Culture	Ice pack	\$124.00	M - F	2-7	DBPL/BI	Identification only, no toxin typing
ISOLATION	Tissue	Ice pack	\$81.00	M - F	2-7	DBPL/BI	Enterotoxemia
Contagious equine metritis							
CF	Serum	Ice pack	\$52.00	M, Th	4	DBRL/SERO	Two ml minimum. Taylorella equigenitalis. Contact laboratory for details (515) 337-7563.
ISO & ID	Swab, culture	Ice pack	\$215.00	M - F	7	DBPL/BI	Taylorella equigenitalis. Swab must be received refrigerated within 48 hrs of collection and in Amies transport medium with charcoal
Coronavirus							
VI			N/A			DVL	Effective July 1, 2025, this testing is available for referral testing only – see the general entry for Virus isolation.
Corynebacterium							
IDENT	Culture	None	\$124.00	M - F	2-7	DBPL/BI	
ISOLATION	Tissue	Ice pack	\$81.00	M - F	2-7	DBPL/BI	
Coryza, infectious							
IDENT	Culture	None	\$124.00	M - F	2-7	DBPL/BI	
ISOLATION	Tissue, swab	Ice pack	\$81.00	M - F	2-7	DBPL/BI	Haemophilus paragallinarum

Procedure	Specimens	Shipping Preservative	FY 2026 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
Coryza, turkey							
IDENT	Culture	None	\$124.00	M - F	2-7	DBPL/BI	Bordetella avium
ISOLATION	Tissue, swab	Ice pack	\$81.00	M - F	2-7	DBPL/BI	
Cysticercosis							
IDENT	Tissue	Formalin	\$0.00	M - F	2	DBRL/CASS	
Dourine							
CF	Serum	Ice pack	\$52.00	M - F	4	DBRL/SERO	Two ml minimum. Trypanosoma equiperdum.
Duck viral enteritis							
PCR			N/A			DVL	This testing is no longer offered at NVSL effective July 1, 2025.
Electron microscopy for morphologic virus identification							
EM	Various	Dry ice	Varies	M - F	2-5	DVL	For referral submissions only. Virus isolates, intestinal contents, lesions. Contact laboratory for details and pricing NVSL.DVL.Teamleads@usda.gov. Lesions suggestive of FMD must be submitted to FADDL.
Encephalomyocarditis							
VI			N/A			DVL	Effective July 1, 2025, this testing is available for referral testing only – see the general entry for Virus isolation.

Procedure	Specimens	Shipping Preservative	FY 2026 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
Epizootic hemorrhagic disease (Orbivirus)							
AGID	Serum	Ice pack	\$33.00	M - Th	3	DVL	Two ml minimum; known cross reactivity with antibodies to Bluetongue virus.
PCR	Blood, spleen	Ice pack	\$72.00	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	\$108.00	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	\$108.00	W,Th,F	22	DVL	Submit a minimum of 4 straws per collection; keep frozen; test 0.5 ml non-extended semen or equivalent.
Equine encephalomyelitis							
IgM ELISA	Serum* and whole blood	Ice pack	\$49.00	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	\$72.00	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.

Procedure	Specimens	Shipping Preservative	FY 2026 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
Equine encephalomyelitis							
PRNT	Serum	Ice pack	\$54.00	M	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	\$108.00	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.
Equine herpesvirus 1 and 4							
PCR	Tissue, nasal swab, whole blood	Ice pack	\$72.00	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.
Equine herpesvirus 1 or 4							
VI			N/A			DVL	Effective July 1, 2025, this testing is available for referral testing only – see the general entry for Virus isolation.
VN	Serum	Ice pack	\$52.00	M	5	DVL	Testing will no longer be offered at NVSL effective June 27, 2025.
Equine herpesvirus 2							
VI			N/A			DVL	Effective July 1, 2025, this testing is available for referral testing only – see the general entry for Virus isolation.

Procedure	Specimens	Shipping Preservative	FY 2026 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
Equine herpesvirus 3							
VI			N/A			DVL	Effective July 1, 2025, this testing is available for referral testing only – see the general entry for Virus isolation.
Equine infectious anemia							
AGID	Serum	Ice pack	\$33.00	M - F	4	DBRL/SERO	*** Pre-import testing for horses located in a foreign country being imported directly into the United States only. *** Two ml minimum.
AGID	Serum	Ice pack	\$33.00	M - F	4	DVL	Two ml minimum. Routine EIA testing of equids requiring an official test form (e.g. VS 10-11) should be submitted to an APHIS-approved EIA testing laboratory, refer to https://www.aphis.usda.gov/sites/default/files/approved-labs-eia.pdf
COHORT	Serum	Ice pack	\$0.00	M - F	3	DVL	Regulatory testing of cohorts to EIA or Piroplasmosis positive animals. NVSL does not issue VS 10-11 or equivalent forms for cohort testing.
CONF	Serum	Ice pack	\$0.00	M - F	2	DVL	Confirmation of non-negative samples submitted by EIA approved testing laboratories. See instructions at https://www.aphis.usda.gov/sites/default/files/doc-requirements-non-neg-eia-results_3.pdf for submission to NVSL for confirmatory testing.
Equine influenza							
HI			N/A			DVL	Effective July 1, 2025, this testing is listed under Influenza A Virus. User fee is per antigen; three antigens are used for each HI.

Procedure	Specimens	Shipping Preservative	FY 2026 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
Equine influenza							
PCR			N/A			DVL	Effective July 1, 2025, this testing is listed under Influenza A Virus.
VI			N/A			DVL	Effective July 1, 2025, this testing is available for referral testing only – see the general entry for Virus isolation.
Equine viral arteritis							
ELISA	Serum	Ice pack	\$49.00	Th	2	DVL	Two ml minimum
VI	Semen	Dry ice	\$108.00	M -F	15-20	DVL	Five ml minimum
VI	Tissue, swab, whole blood	Ice pack	\$108.00	M - F	16	DVL	Ship whole blood refrigerated.
VN	Serum	Ice pack	\$52.00	M	5	DVL	Two ml minimum. Note if animal is vaccinated for full titration to 512. QCF samples are tested by ELISA at additional user fee. Submissions of >20 samples may be subject to extended turnaround; contact the laboratory for estimated time.
Erysipelas							
IDENT	Culture	None	\$124.00	M - F	2-7	DBPL/BI	Erysipelothrix rhusiopathiae
ISOLATION	Tissue	Ice pack	\$81.00	M - F	2-7	DBPL/BI	

Procedure	Specimens	Shipping Preservative	FY 2026 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
Fetal bovine serum safety test							
FBSS	Serum	Dry ice	\$2,419.00	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.
Fowl cholera							
DNA FP	Culture	None	\$430.00	M - F	30-60	DBPL/BI	
GDPT	Culture	None	\$42.00	M -F	7	DBPL/BI	Somatic antigen typing
IDENT	Culture	None	\$124.00	M - F	2-7	DBPL/BI	
ISOLATION	Tissue	Ice pack	\$81.00	M - F	2-7	DBPL/BI	Pasteurella multocida
Glanders							
ELISA	Serum	Ice pack	\$49.00	M - F	4	DBRL/SERO	Two ml minimum. Burkholderia mallei.
IDENT	Culture	None	\$215.00	M -F	21	DBPL/BI	(Burkholderia mallei) Contact laboratory for arrangements (515) 337-7526
ISOLATION	Various	Ice pack	\$215.00	M - F	7	DBPL/BI	(Burkholderia mallei) Contact laboratory for arrangements (515) 337-7526
Heartwater**							
PCR	Blood-EDTA	Ice pack	\$72.00	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.

Procedure	Specimens	Shipping Preservative	FY 2026 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
Heartwater**							
PCR	Tissue	Ice pack	\$72.00	M -F	4	DVL	
Histopathology							
HISTO	Fixed tissue	Formalin-fixed	\$36.00	M - F	5	DBPL/PATH	Cost per slide
Import testing for avian-origin material							
CI	Various	Dry ice	\$8,636.00	M - F	35	DVL	Twenty birds inoculated with material and tested for antibody to avian influenza, Newcastle disease, and adenovirus 127 at 21 dpi
Infectious laryngotracheitis (aka Gallid herpesvirus 1)							
PCR			N/A			DVL	This testing is no longer offered at NVSL effective July 1, 2025.
VI			N/A			DVL	Effective July 1, 2025, this testing is available for referral testing only – see the general entry for Virus isolation.
Influenza A virus							
HI	Serum	Ice pack	\$52.00	M - W	3	DVL	Referral testing for avian and mammalian species; user fee is per subtype; contact laboratory at NVSL.DVL.Teamleads@usda.gov
rRT-PCR	Virus isolate, tissues, swabs	Various	\$72.00	M - F	3	DVL	Avian and mammalian species; sample type depends upon species; contact laboratory at NVSL.DVL.Teamleads@usda.gov
SEQUENCING	See comment	--	--	--	--	DVL	Refer to Sequencing identification and characterization.

Procedure	Specimens	Shipping Preservative	FY 2026 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
Influenza A virus							
VI	See comment	--	--	--	--	DVL	Refer to Virus isolation in cells and embryonated chicken eggs.
Johne's disease							
CF	Serum	Ice pack	\$52.00	Tu	4	DBRL/SERO	Two ml minimum. Mycobacterium paratuberculosis.
ELISA	Serum	Ice pack	\$49.00	Th	4	DBRL/SERO	Two ml minimum
FECAL PCR	Feces	Ice pack	\$72.00	M - F	14	DBPL/MB	Two gram minimum
IDENT	Tissue, feces, culture	Ice pack	\$43.00	M - W	56	DBPL/MB	Trek ESP, HEY
ISOLATION	Tissue, feces, culture	Ice pack	\$81.00	M - W	56	DBPL/MB	Trek ESP, HEY
Leptospirosis							
FAT	Tissue, urine	Ice pack	\$42.00	M - F	2-3	DBPL/BI	Samples should be shipped overnightthe same day they are collected
ISOLATION	Kidney, liver, urine fresh not frozen	Ice pack	\$72.00	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	\$60.00	W	2-7	DBPL/BI	Samples must be received by 12:00 pm on Wednesday for testing; additional charge for more than 5 serovars

Procedure	Specimens	Shipping Preservative	FY 2026 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
Leptospirosis							
PCR	Tissue, urine, blood	Ice pack	\$36.00	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)
Listeriosis							
IDENT	Culture	None	\$124.00	M - F	2-7	DBPL/BI	Listeria spp.
ISOLATION	Tissue	Ice pack	\$81.00	M - F	7-42	DBPL/BI	
Malignant catarrhal fever							
IPT	Serum	Ice pack	\$35.00	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)
PCR	Blood-EDTA	Ice pack	\$72.00	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	\$72.00	M - F	7-14	DVL	Differentiates between alcelaphine herpesvirus 1 and ovine herpesvirus 2
VN	Serum	Ice pack	\$52.00	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)

Procedure	Specimens	Shipping Preservative	FY 2026 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
Melioidosis							
IDENT	Culture	None	\$215.00	M -F	21	DBPL/BI	(Burkholderia pseudomallei) Contact laboratory for arrangements (515) 337-7526
ISOLATION	Various	Ice pack	\$215.00	M - F	7	DBPL/BI	(Burkholderia pseudomallei) Contact laboratory for arrangements (515) 337-7526
Mycobacterium							
AFS	Fluid, culture	Various	\$36.00	M -F	2	DBPL/MB	Direct acid fast stain on clinical specimens
AST	Culture	None	\$242.00	Call	28	DBPL/MB	Antibiotic sensitivity test performed on mycobacterium other than Mycobacterium tuberculosis complex. Isolate identification required prior to testing. Contact laboratory for test schedule (515) 337-7526.
DPP-Cervid	Serum	Ice pack	\$36.00	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	\$36.00	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	\$72.00	Tu, 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	\$36.00	M - F	1	DBPL/PATH	Formalin-fixed tissue or paraffin-embedded tissue block. Cost is per slide.

Procedure	Specimens	Shipping Preservative	FY 2026 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
Mycobacterium							
IDENT	Culture	None	\$124.00	M -F	56	DBPL/MB	Identification of acid fast bacteria includes 16s rDNA and rpoB sequencing analysis.
ISOLATION	Tissue, swabs, washes	Various	\$81.00	M - F	60	DBPL/MB	Contact laboratory for details at NVSL-MB.caseManager@usda.gov or (515) 337-7526. Shipping preservative - ice pack or Sodium Borate
PCR	Fixed tissue containing lesion	Formalin-fixed	\$143.00	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	\$81.00	M -F	60	DBPL/MB	Elephant trunk washings - See "Guide for the Control of TB in Elephants." 2010. Available at www.elephantcare.org .
Mycoplasma							
HI	Serum	Ice pack	\$52.00	M - F	5	DBPL/BI	Two ml minimum. Mycoplasma gallisepticum, M. meleagridis, and M. synoviae, user fee is per species
PLATE	Serum	Ice pack	\$17.00	M - F	3	DBPL/BI	Two ml minimum. Mycoplasma gallisepticum, M. meleagridis, and M. synoviae, user fee is per species
Ornithobacterium rhinotracheale							
IDENT	Culture	None	\$124.00	M - F	2-7	DBPL/BI	ORT
ISOLATION	Various	Various	\$81.00	M - F	3-14	DBPL/BI	ORT

Procedure	Specimens	Shipping Preservative	FY 2026 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
Parasites, blood							
MX	Whole blood	EDTA	\$60.00	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.
Parasites, external							
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.
Paratyphoid							
TUBE	Serum	Ice pack	\$17.00	Tu, Th	4	DBRL/SERO	Two ml minimum. Salmonella abortus-equi, equidae.
Piroplasmosis, equine							
CELISA	Serum	Ice pack	\$49.00	M - F	4	DBRL/SERO	Two ml minimum. Babesia caballi and Babesia (Theileria) equi, user fee is per species.
CF	Serum	Ice pack	\$52.00	M - F	4	DBRL/SERO	Two ml minimum. Babesia caballi and Babesia (Theileria) equi, user fee is per species.
IFA	Serum	Ice pack	\$52.00	Tu, Th	4	DBRL/SERO	Two ml minimum. Babesia caballi and Babesia (Theileria) equi, user fee is per species.
WBLOT	Serum	Ice pack	\$43.00	M - F	4	DBRL/SERO	Two ml minimum. Babesia caballi only. Contact laboratory for approval (515) 337-7563.
Porcine hemagglutinating encephalomyelitis virus							
HI	Serum		N/A			DVL	This testing is no longer offered at NVSL effective June 2, 2025.

Procedure	Specimens	Shipping Preservative	FY 2026 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
Porcine hemagglutinating encephalomyelitis virus							
VI			N/A			DVL	Effective July 1, 2025, this testing is available for referral testing only – see the general entry for Virus isolation.
Porcine parvovirus							
VI			N/A			DVL	Effective July 1, 2025, this testing is available for referral testing only – see the general entry for Virus isolation.
Porcine reproductive and respiratory syndrome							
ELISA	Serum	Ice pack	\$49.00	M - F	3	DVL	PRRS
HTP IFA	Serum	Ice Pack	\$36.00	As scheduled	As scheduled	DVL	High throughput testing of ≥100 samples; single user fee per sample. Includes North American and European strains. Sample receipt and testing timelines must be negotiated in advance. Contact laboratory at APHIS-NVSL-PRRS-ExportTesting@usda.gov
IFA	Serum	Ice pack	\$52.00	M - F	3	DVL	Differentiates North American vs. European strains and requires two user fee charges per sample. Intended for testing of fewer than 100 samples.
VI	Tissue, serum	Ice pack	\$108.00	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

Procedure	Specimens	Shipping Preservative	FY 2026 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
Porcine rubulavirus**							
HI	Serum	Ice pack	\$52.00	M - F	2	DVL	a/k/a Blue eye paramyxovirus, Two ml minimum. porcine BEP
VI	Tissue, swab	Ice pack	\$108.00	M - F	21	DVL	a/k/a Blue eye paramyxovirus
Porcine sapelovirus							
IFA	Serum	Ice pack	\$52.00	M - F	5-7	DVL	Formerly Porcine enterovirus A or PEV 8
VI			N/A			DVL	Effective July 1, 2025, this testing is available for referral testing only – see the general entry for Virus isolation.
Porcine teschovirus							
IFA	Serum	Ice pack	\$52.00	M - F	5-7	DVL	Seven groups, user fee is per group, (formerly PEV 1-7)
VI			N/A			DVL	Effective July 1, 2025, this testing is available for referral testing only – see the general entry for Virus isolation.
Pox							
EM			N/A			DVL	Effective July 1, 2025, this testing is available for referral testing only – see the general entry for Electron Microscopy.
VI			N/A			DVL	Effective July 1, 2025, this testing is available for referral testing only – see the general entry for Virus isolation.

Procedure	Specimens	Shipping Preservative	FY 2026 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
Pseudocowpox							
IFA	Serum	Ice pack	\$52.00	M - F	3	DVL	Two ml minimum
VI			N/A			DVL	Effective July 1, 2025, this testing is available for referral testing only – see the general entry for Virus isolation.
Pseudorabies							
ELISA	Serum	Ice pack	\$49.00	M - F	2	DVL	Two ml minimum. Screening or differential for gB. Aujeszky's disease, infectious bulbar paralysis, mad itch.
VI	Tissue	Ice pack	\$108.00	M - F	15	DVL	
VN	Serum	Ice pack	\$52.00	F	3	DVL	Two ml minimum
Psittacine herpesvirus							
IFA			N/A			DVL	This testing is no longer offered at NVSL effective July 1, 2025.
Q-fever							
CF			N/A			DVL	Effective February 23, 2026, NVSL no longer offers this assay due to a reagent availability issue.
ELISA	Serum	Ice pack	\$49.00	M, W	5	DVL	Two ml minimum (aka Coxiella burnetti)
Rotavirus							
EM			N/A			DVL	Effective July 1, 2025, this testing is available for referral testing only – see the general entry for Electron Microscopy.

Procedure	Specimens	Shipping Preservative	FY 2026 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
Rotavirus							
VI			N/A			DVL	Effective July 1, 2025, this testing is available for referral testing only – see the general entry for Virus isolation.
Salmonella (all subspecies)							
ISOLATION	Various	Various	\$81.00	M - F	7	DBPL/BI	
SEROTYP	Culture	None	\$97.00	M - F	14	DBPL/BI	
Salmonella Enteritidis							
SEROTYP	Culture	None	\$36.00	M - F	2-3	DBPL/BI	Accelerated Salmonella Enteritidis Rule Out
Salmonella Pullorum-Typhoid							
AGGL	Serum	Ice pack	\$17.00	M - Th	3	DBPL/BI	
Salmonella Typhimurium							
AGGL	Serum	Ice pack	\$17.00	M - Th	3	DBPL/BI	
Schmallenberg** (Orthobunyavirus)							
PCR	Fetal / newborn brain, placenta, umbilical tissue	Ice pack	\$72.00	Call	3	DVL	Only for FAD investigations. Contact laboratory before shipment (515) 337-7551. Orthobunyavirus that can cause congenital malformations.

Procedure	Specimens	Shipping Preservative	FY 2026 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
Scrapie							
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	\$43.00	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) 337-7526.
PrP-Codon Single	Whole blood, tissue, FTA card	None	\$43.00	Varies	10	DBPL/MB	Scrapie susceptibility genotyping for sheep Codon 171 or 136
Sequencing identification/characterization							
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) 337-7526, Virology (515) 337-7551.
Serum screen							
CHEM	Serum, blood	Ice pack	\$0.00	M - F	Varies	DBRL/CASS	Contact laboratory for details (515) 337-7065
Streptococcus							
IDENT	Culture	None	\$124.00	M - F	2-7	DBPL/BI	Including strangles
ISOLATION	Tissue, swab	Ice pack	\$81.00	M - F	2-7	DBPL/BI	Including strangles

Procedure	Specimens	Shipping Preservative	FY 2026 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
Swine influenza							
HI			N/A			DVL	Effective July 1, 2025, this testing is listed under Influenza A Virus. Multiple serotypes, user fee is per serotype
HI/NI			N/A			DVL	Effective July 1, 2025, this testing is listed under Influenza A Virus. 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			N/A			DVL	Effective July 1, 2025, this testing is listed under Influenza A Virus.
rRT-PCR			N/A			DVL	Effective July 1, 2025, this testing is listed under Influenza A Virus.
VI			N/A			DVL	Effective July 1, 2025, this testing is listed under Influenza A Virus.

Tuberculosis (See also Mycobacterium)

DPP-Cervid	Serum	Ice pack	\$36.00	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	\$36.00	M - F	5	DBRL/SERO	DPP test for elephant. Contact laboratory for test availability prior to submitting sample (515) 337-7563.

Procedure	Specimens	Shipping Preservative	FY 2026 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
Tuberculosis (See also Mycobacterium)							
GAMMA INF	Heparinized blood	None	\$72.00	Tu, 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	\$215.00	M -F	7	DBPL/BI	Contact laboratory for arrangements (515) 337-7526
ISOLATION	Tissue	Ice pack	\$215.00	M -F	7	DBPL/BI	Contact laboratory for arrangements (515) 337-7526
Vesicular stomatitis							
CELISA	Serum	Ice pack	\$49.00	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	\$52.00	M - F	4-7	DVL	Two ml minimum. New Jersey and Indiana types, two user fee charges per serum. Estimated turnaround time does not apply to FAD investigation samples.
PCR	Tissue, vesicular fluid, lesion swab	Ice pack	\$72.00	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	\$108.00	M - F	8	DVL	RUMINANT AND PORCINE SAMPLES--SEND TO FADDL; EQUINE SAMPLES--SEND TO DVL. Notify State veterinarian/Federal veterinarian.

Procedure	Specimens	Shipping Preservative	FY 2026 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
Vesicular stomatitis							
VN	Serum	Ice pack	\$52.00	Tu, 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 ≥32 will be tested by cELISA at additional charge.
Vibriosis							
IDENT	Culture	None	\$124.00	M - F	2-7	DBPL/BI	
ISOLATION	Culture	None	\$81.00	M -F	7	DBPL/BI	Vibrio spp.
Viral abortion							
VI			N/A			DVL	Effective July 1, 2025, this testing is available for referral testing only – see the general entry for Virus isolation.
Virus isolation							
ISOLATION	Various	Varies	Varies	Varies	Varies	DVL	For referral submissions only. Virus isolation using cell culture or SPF embryonated chicken eggs (various routes). Contact NVSL for additional information and pricing NVSL.DVL.Teamleads@usda.gov.
West nile virus							
IgM ELISA	Serum	Ice pack	\$49.00	W	3	DVL	Two ml minimum; for equids only and recommended for neurologic cases
PCR	Brain	Dry ice	\$72.00	Tu, 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.

Procedure	Specimens	Shipping Preservative	FY 2026 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
West nile virus							
PRNT	Serum	Ice pack	\$54.00	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.
Yersinia spp.							
IDENT	Culture	None	\$124.00	M - F	2-7	DBPL/BI	Yersiniosis, not plague. Contact laboratory for plague (515) 337-7526.
ISOLATION	Various	Ice pack	\$81.00	M - F	2-7	DBPL/BI	