

Diagnostic Testing

National Veterinary Services Laboratories - Ames, Iowa

Procedure	Specimens	Shipping Preservative	FY 2020 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
African horse sickness**							
ELISA	Serum	Ice pack	\$18.00	Call	2	DVL/EO	Two ml minimum. Testing done 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/EO	Testing done 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/EO	Testing done only for FAD investigations. Contact laboratory before shipment (515) 337-7551.
Aino**							
VN	Serum	Ice pack	\$14.00	M, F	4	DVL/EO	Two ml minimum. Contact laboratory before shipment (515) 337-7551.
Akabane**							
VN	Serum	Ice pack	\$14.00	M, F	4	DVL/EO	Two ml minimum. Contact laboratory before shipment (515) 337-7551.

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IF RESULTS ARE REQUIRED BY A SPECIFIC DATE PLEASE CONTACT NVSL PRIOR TO SHIPPING.

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Anaplasmosis							
CELISA	Serum	Ice pack	\$18.00	W	4	DBRL/SERO	Two ml minimum. Anaplasma marginale, cattle.
CF	Serum	Ice pack	\$18.00	Th	4	DBRL/SERO	Two ml minimum. Anaplasma marginale, cattle.
Anthrax							
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
Aquaculture-related bacterial diseases							
ISOLATION	Various	Ice Pack	\$40.00	Call	10	DBPL/BI	Contact laboratory for arrangements (515) 337-7565
Aquaculture-related viral diseases							
Various	Various	Various	\$112.00	Call	Varies	DVL/BPA	Contact laboratory for arrangements and pricing (515) 337-7551

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Aquaculture-wet lab studies							
Various	Aquatic species	None	\$112.00	Call	Call	DVL/BPA	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	Tissue, swab	Dry ice	\$52.00	M - F	18-30	DVL/AV	Quail Bronchitis, chicken embryo lethal orphan
Avian adenovirus group III							
HI	Serum	Ice pack	\$16.00	M - F	3	DVL/AV	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/AV	Spleen or kidney tissues; shell gland swabs; PCR validation in process
Avian influenza (aka fowl plague, LPAI, HPAI; subtypes H5 and H7 are reportable**)							
AGID	Serum	Ice pack	\$18.00	M - F	4	DVL/AV	Two ml minimum
HI/NI	Serum	Ice pack	\$16.00	M - F	3	DVL/AV	One ml of sera (not whole blood) recommended; sample should not exceed 1% of total body weight; contact NVSL regarding small birds. Includes HI and NI tests. Sixteen H subtypes available, user fee is per H subtype.

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Avian influenza (aka fowl plague, LPAI, HPAI; subtypes H5 and H7 are reportable**)							
IVPI	Virus	Dry ice	\$2,632.00	W	12	DVL/AV	Contact laboratory for arrangements (515) 337-7551
RRT-PCR	Swab	Dry ice	\$56.00	M - F	3	DVL/AV	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	\$52.00	M - F	18-30	DVL/AV	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	\$18.00	M - F	3	DVL/AV	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.
IFA	Serum	Ice pack	\$16.00	M - F	4	DVL/AV	One ml minimum
RT-PCR	Swab	Dry ice	\$56.00	M - F	3-5	DVL/AV	

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Avian paramyxovirus serotype-1 (virulent viruses cause Newcastle disease**)							
HI	Serum	Ice pack	\$16.00	M - F	3	DVL/AV	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	\$896.00	W	12	DVL/AV	Contact laboratory for arrangements (515) 337-7551
RRT-PCR	Swab	Dry ice	\$56.00	M - F	3	DVL/AV	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/AV	Do not freeze
VI	Tissue, swab	Dry ice	\$52.00	M - F	18-30	DVL/AV	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/AV	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.

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Avian paramyxovirus serotypes 2-9							
VI	Tissue, swab	Dry ice	\$52.00	M - F	18-30	DVL/AV	Dry swabs are not acceptable, contact laboratory for further information (515) 337-7551. Refer to sample collection guidance WI-AV-0020 online.
Avian reovirus							
IFA	Serum	Ice pack	\$16.00	M - F	4	DVL/AV	One ml minimum. Fahey-Crawley, infectious synovitis, viral arthritis.
VI	Tissue	Dry ice	\$52.00	M - F	18-30	DVL/AV	
Bacterial antibiotic sensitivity							
AST	Culture	None	\$28.00	M - F	2-3	DBPL/BI	Antibiotic sensitivity test of bacteria except for Mycobacterium species
Bacterial identification							
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.

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Bacterial isolation							
ISOLATION	Various	Various	\$40.00	M - F	2-7	DBPL/BI	
Bluetongue							
AGID	Serum	Ice pack	\$18.00	M - Th	3	DVL/EO	Two ml minimum. Cross reactions with Epizootic hemorrhagic disease.
CELISA	Serum	Ice pack	\$18.00	M, W	3	DVL/EO	Two ml minimum
PCR	Blood, spleen	Ice pack	\$56.00	M, W	5	DVL/EO	Four ml minimum. Refrigerate whole blood collected in EDTA. Do not freeze. Subsequent PCR assays (within the DVL/EO lab) on the same sample will be charged ¼ hour each.
VI	Blood, spleen	Ice pack	\$52.00	M,W,Th,F	22	DVL/EO	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/EO	Keep frozen; test 0.5 ml non-extended semen or equivalent. Submit a minimum of 4 straws per collection.
VN	Serum	Ice pack	\$14.00	M, F	5	DVL/EO	Two ml minimum. Five serotypes, user fee is per serotype.
Botulism							
ISOLATION	Various	Various	\$101.00	M - F	7	DBPL/BI	Clostridium botulinum, contact laboratory for arrangements (515) 337-7565

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Botulism							
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
Bovine enterovirus							
VI	Tissue	Ice pack	\$52.00	M - F	25	DVL/BPA	BEV
Bovine herpesvirus 1							
VI	Semen	Dry ice, LN2	\$52.00	M - F	21	DVL/BPA	Must be kept frozen
VI	Tissue, blood	Ice pack	\$52.00	M - F	15	DVL/BPA	
VN	Serum	Ice pack	\$14.00	F	5	DVL/BPA	Two ml minimum
Bovine herpesvirus 2							
VI	Tissue	Ice pack	\$52.00	M - F	15	DVL/BPA	
VN	Serum	Ice pack	\$14.00	Th	5	DVL/BPA	Two ml minimum
Bovine herpesvirus 4							
IFA	Serum	Ice pack	\$16.00	M - F	5-7	DVL/BPA	Two ml minimum. DN599, MOVAR, bovine cytomegalovirus.
VI	Tissue	Ice pack	\$52.00	M - F	15	DVL/BPA	

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Bovine leukosis							
ELISA	Serum	Ice pack	\$18.00	M, W	3	DVL/EO	Two ml minimum
Bovine papular stomatitis							
IFA	Serum	Ice pack	\$16.00	M - F	5-7	DVL/BPA	Two ml minimum
VI	Tissue	Ice pack	\$52.00	M - F	15	DVL/BPA	
Bovine parvovirus							
IFA	Serum	Ice pack	\$16.00	M - F	3	DVL/BPA	Two ml minimum
VI	Tissue	Ice pack	\$52.00	M - F	15	DVL/BPA	
Bovine respiratory syncytial virus							
VI	Tissue, swab	Ice pack	\$52.00	M - F	15	DVL/BPA	Special transport medium recommended. Contact laboratory for details (515) 337-7551.
VN	Serum	Ice pack	\$14.00	Th	7	DVL/BPA	Two ml minimum
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.

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Bovine spongiform encephalopathy							
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.
Bovine viral diarrhea							
VI	Various	Ice pack	\$52.00	M - F	25	DVL/BPA	Tissue, swab, blood, or serum (DO NOT FREEZE WHOLE BLOOD)
VN	Serum	Ice pack	\$14.00	Th	5	DVL/BPA	Two ml minimum. Types I and II, user fee is per type.
Brucella abortus							
8% CARD	Serum	Ice pack	\$4.50	M - F	4	DBRL/SERO	Two ml minimum. Bovine and porcine.
BAPA	Serum	Ice pack	\$8.00	M - F	4	DBRL/SERO	Bang's disease, 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

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Brucella abortus							
ELISA	Serum	Ice pack	\$18.00	W	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
PLATE, SPT	Serum	Ice pack	\$7.75	W	4	DBRL/SERO	Two ml minimum
RAP	Serum	Ice pack	\$7.25	Tu	4	DBRL/SERO	Two ml minimum
RIVANOL	Serum	Ice pack	\$7.75	M	4	DBRL/SERO	Two ml minimum
TUBE, STT	Serum	Ice pack	\$7.75	W	4	DBRL/SERO	Two ml minimum
Brucella canis							
ME TUBE	Serum	Ice pack	\$7.75	M, W	4	DBRL/SERO	Two ml minimum
Brucella melitensis							
3% CARD	Serum	Ice pack	\$4.50	M - F	4	DBRL/SERO	Two ml minimum
Brucella ovis							
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

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Brucellosis							
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	
Cache Valley							
VN	Serum	Ice pack	\$14.00	M, F	5	DVL/EO	Two ml minimum
Calicivirus							
VI	Tissue	Ice pack	\$52.00	M - F	25	DVL/BPA	San Miguel sea lion virus
VN	Serum	Ice pack	\$14.00	Th	5	DVL/BPA	Nine serotypes, user fee is per serotype
Campylobacteriosis							
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	
Caprine arthritis encephalitis							
ELISA	Serum	Ice pack	\$18.00	M, W	3	DVL/EO	Two ml minimum

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Chicken anemia virus							
PCR	Tissue	Dry ice	\$56.00	M - F	5	DVL/AV	Additional processing fee applied if tissue collection is needed.
Chlamydia psittaci							
CF	Serum	Ice pack	\$18.00	T, Th	4	DVL/EO	Two ml minimum. Ornithosis, parrot fever, enzootic ovine abortion.
ISO & ID	Various	Ice pack	\$52.00	Tu, F	14	DVL/AV	Tissue, swab, or feces. Do not freeze specimens for isolation
PCR	Various	Ice pack	\$56.00	M - F	3-5	DVL/AV	Tissue, swab or feces
Chronic wasting disease							
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.
Clostridium chauvoei							
IDENT	Culture	None	\$58.00	M - F	2-7	DBPL/BI	Blackleg
ISOLATION	Tissue	Ice pack	\$40.00	M - F	2-7	DBPL/BI	

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Clostridium perfringens							
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
Contagious ecthyma							
CF	Serum	Ice pack	\$18.00	T, Th	3	DVL/EO	Two ml minimum. Orf, contagious pustular dermatitis.
Contagious equine metritis							
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
Coronavirus							
IFA	Serum	Ice pack	\$16.00	M - F	5-7	DVL/BPA	Bovine only
VI	Tissue, feces	Ice pack	\$52.00	M - F	15	DVL/BPA	Bovine or porcine
VN	Serum	Ice pack	\$14.00	M - F	4	DVL/BPA	Two ml minimum. Assay will not differentiate between TGE and PRCV antibodies.

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Corynebacterium							
IDENT	Culture	None	\$58.00	M - F	2-7	DBPL/BI	
ISOLATION	Tissue	Ice pack	\$40.00	M - F	2-7	DBPL/BI	
Coryza, infectious							
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
Coryza, turkey							
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	
Cysticercosis							
IDENT	Tissue	Formalin	\$0.00	M - F	2	DBRL/CASS	
Dourine							
CF	Serum	Ice pack	\$18.00	M - F	4	DBRL/SERO	Two ml minimum. Trypanosoma equiperdum.

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Duck viral enteritis							
PCR	Tissue	Ice pack	\$56.00	M - F	3-5	DVL/AV	Liver preferred, or contact laboratory for details (515) 337-7551
Electron microscopy for morphologic virus identification							
EM	Various	Dry ice	\$56.00	M - F	2-5	DVL/ALL	Virus isolates, intestinal contents, lesions. Contact laboratory for details (515)337-7551. Lesions suggestive of FMD must be submitted to FADDL.
Encephalomyocarditis							
VI	Tissue	Ice pack	\$52.00	M - F	15	DVL/BPA	Heart, lung, liver, or kidney
VN	Various	Ice pack	\$14.00	Tu	3	DVL/BPA	Two ml minimum. Serum.
Epizootic hemorrhagic disease							
PCR	Blood, spleen	Ice pack	\$56.00	M - F	2	DVL/EO	Four ml minimum. Refrigerate whole blood collected in EDTA. Do not freeze. Subsequent PCR assays (within the DVL/EO lab) on the same sample will be charged ¼ hour each.
VI	Blood, spleen	Ice pack	\$52.00	W,Th,F	22	DVL/EO	Four ml minimum. Submit whole blood collected in EDTA or heparin. Do not freeze. Ship refrigerated overnight.

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Epizootic hemorrhagic disease							
VI	Semen	Dry ice	\$52.00	W,Th,F	22	DVL/EO	Keep frozen; test 0.5 ml non-extended semen or equivalent. Submit a minimum of 4 straws per collection.
VN	Serum	Ice pack	\$14.00	M, F	5	DVL/EO	Two ml minimum. Type 1, 2; user fee is per serotype.
Equine adenovirus							
VI	Nasal swabs, tracheal wash	Dry ice	\$52.00	W, Th	22	DVL/EO	
VN	Serum	Ice pack	\$14.00	M, F	5	DVL/EO	Two ml minimum. Equine.
Equine encephalomyelitis							
CF	Serum	Ice pack	\$18.00	W	3	DVL/EO	Two ml minimum. Specify strain(s): EEE, WEE, VEE. User fee is per strain. For VEE inquiries contact the laboratory prior to shipping (515) 337-7551.
HI	Serum	Ice pack	\$16.00	W	3	DVL/EO	Two ml minimum. Specify strain(s): EEE, WEE, VEE. User fee is per strain. For VEE inquiries contact the laboratory prior to shipping (515) 337-7551.

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Procedure	Specimens	Shipping Preservative	FY 2020 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
Equine encephalomyelitis							
IgM ELISA	Serum* and whole blood	Ice pack	\$18.00	M, Th	2	DVL/EO	Two ml minimum. User fee is per strain. Only EEE is available at this time. For VEE inquiries contact the laboratory before shipment (515) 337-7551. *Serum is required for the ELISA test. The EDTA blood is requested for test improvement process.
PCR	Brain	Ice pack	\$56.00	M, W	5	DVL/EO	May ship refrigerated overnight with ice pack. Subsequent PCR assays (within the DVL/EO lab) on the same sample will be charged ¼ hour each. VEE inquiries contact laboratory prior to shipment (515) 337-7551.
PRNT	Serum	Ice pack	\$19.00	Tu	4	DVL/EO	Two ml minimum. User fee is per strain. Equine serum: EEE or WEE PRNT may not be requested individually; equine samples are tested for antibodies for both EEE and WEE.
VI	Brain	Ice pack	\$52.00	W,Th,F	16	DVL/EO	Must perform rabies test on mammalian brain tissue prior to submission. Fresh tissue may be sent on wet ice overnight. Whole blood should be shipped refrigerated. Sample of choice is fresh brain tissue.
Equine herpesvirus 1							
PCR	Tissue, nasal swab, whole blood	Ice pack	\$56.00	Varies	3	DVL/EO	Strain differentiation between the common wild type virus and a mutat with increased pathogenicity. Ship whole blood refrigerated. Contact laboratory for arrangements (515) 337-7551.

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Equine herpesvirus 1							
PCR	Tissue, nasal swab, whole blood	Ice pack	\$56.00	Varies	3	DVL/EO	Includes EHV-4 PCR. Ship whole blood refrigerated. Subsequent PCR assays (within the DVL/EO lab) on the same sample will be charged ¼ hour each. Contact laboratory to arrange (515) 337-7551.
VI	Tissue, nasal swab, whole blood	Ice pack	\$52.00	W, Th	16	DVL/EO	Ship whole blood refrigerated.
VN	Serum	Ice pack	\$14.00	M, F	5	DVL/EO	Two ml minimum. Does not differentiate between herpesvirus 1 and 4.
Equine herpesvirus 2							
VI	Swabs, whole blood	Ice pack	\$52.00	W, Th	16	DVL/EO	Cytomegalovirus, Ship whole blood refrigerated.
Equine herpesvirus 3							
VI	Lesions, swabs	Ice pack	\$52.00	W, Th	16	DVL/EO	Coital exanthema.
Equine herpesvirus 4							
PCR	Tissue, nasal swab, whole blood	Ice pack	\$56.00	Varies	3	DVL/EO	Includes EHV-1 PCR. Ship whole blood refrigerated. Subsequent PCR assays (within the DVL/EO lab) on the same sample will be charged ¼ hour each. Contact laboratory to arrange (515) 337-7551.

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Equine herpesvirus 4							
VI	Tissue, swab, whole blood	Ice pack	\$52.00	W, Th	16	DVL/EO	Ship whole blood refrigerated.
Equine infectious anemia							
AGID	Serum	Ice pack	\$18.00	M - F	3	DVL/EO	Two ml minimum. No charge for confirmation of positives.
ELISA	Serum	Ice pack	\$18.00	M, W, F	3	DVL/EO	Two ml minimum. Please specify ELISA kit. Laboratory discretion will used if no kit noted. Contact laboratory for details (515) 337-7551.
Equine influenza							
HI	Serum	Ice pack	\$16.00	W	3	DVL/EO	User fee is per antigen; three antigens are used for each HI.
PCR	Tissue, nasal swab	Ice pack	\$56.00	Varies	2	DVL/EO	
VI	Tissue, nasal swab	Ice pack	\$52.00	M,W-F	22	DVL/EO	A1 - H7N7, A2 - H3N8 (Extra time required for isolate identification); dependent on embryonated egg availability if egg isolation is required.
Equine rhinitis virus							
VI	Lung tissue, nasal swab	Ice pack	\$52.00	W, Th	16	DVL/EO	Extra time required for isolate identification.

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Equine rhinitis virus							
VN	Serum	Ice pack	\$14.00	M, F	5	DVL/EO	Rhino 1 and 2 serotypes; user fee is per serotype.
Equine viral arteritis							
VI	Semen	Dry ice	\$52.00	M - F	15-20	DVL/EO	Five ml minimum
VI	Tissue, swab, whole blood	Ice pack	\$52.00	M - F	16	DVL/EO	Ship whole blood refrigerated.
VN	Serum	Ice pack	\$14.00	M, F	5	DVL/EO	Two ml minimum
Erysipelas							
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	
Fetal bovine serum safety test							
SI	Serum	Dry ice	\$1,160.00	Th	35	DVL/EO	Contact State or Federal veterinarian for special requirements for testing before submitting serum. Samples must be received by noon on Wednesday for inoculation on Thursday. Dependent on sheep availability. No set up when Thursday is a holiday.

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Fowl cholera							
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
Fowl pox							
IFA	Serum	Ice pack	\$16.00	M - F	4	DVL/AV	One ml minimum. Avian pox.
VI	Tissue	Dry ice	\$52.00	M - F	30	DVL/AV	
Glanders							
CF	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

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Heartwater**							
PCR	Blood -EDTA	Ice pack	\$56.00	M - F	4	DVL/BPA	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/BPA	
Histopathology							
HISTO	Fixed tissue	Formalin-fixed	\$28.00	M - F	5	DBPL/PATH	Cost per slide
Ibaraki**							
VN	Serum	Ice pack	\$14.00	M, F	5	DVL/EO	Testing done only for FAD investigations and importation of animals from other countries
Import testing for avian-origin material							
CI	Various	Dry ice	\$4,180.00	M - F	35	DVL/AV	Twenty birds inoculated with material and tested for antibody to avian influenza, Newcastle disease, and adenovirus 127 at 21 dpi
Infectious bursal disease							
AGID	Serum	Ice pack	\$18.00	M - F	4	DVL/AV	One ml minimum. Gumboro disease.

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Infectious bursal disease							
VI	Tissue	Dry ice	\$52.00	M - F	30	DVL/AV	
Infectious laryngotracheitis (aka Gallid herpesvirus 1)							
IFA	Serum	Ice pack	\$16.00	M - F	4	DVL/AV	One ml minimum
PCR	Tissue, swab	Ice pack	\$56.00	M - F	3-5	DVL/AV	
VI	Tissue	Dry ice	\$52.00	M - F	30	DVL/AV	
Johne's disease							
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

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Leptospirosis							
FAT	Tissue, urine	Ice pack	\$20.00	M - F	2-3	DBPL/BI	Samples should be shipped overnight the same day they are collected
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
Listeriosis							
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	
Malignant catarrhal fever							
IPT	Serum	Ice pack	\$17.00	W	5-7	DVL/BPA	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	\$56.00	M - F	7-14	DVL/BPA	Three ml minimum, must be received within 7 days of collection date. Differentiates between alcelaphine herpesvirus 1 and ovine herpesvirus 2

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Malignant catarrhal fever							
PCR	Tissue	Ice pack	\$56.00	M - F	7-14	DVL/BPA	Differentiates between alcelaphine herpesvirus 1 and ovine herpesvirus 2
VN	Serum	Ice pack	\$14.00	Th	7	DVL/BPA	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)
Marek's disease							
AGID	Serum	Ice pack	\$18.00	M - F	4	DVL/AV	One ml minimum
Melioidosis							
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
Mycobacterium							
AFS	Fluid, culture	Various	\$28.00	M - F	2	DBPL/MB	Direct acid fast stain on clinical specimens
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

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Mycobacterium							
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	\$112.00	Varies	4	DBRL/SERO	Please direct all inquiries for testing to the Cattle Health Center, at 301-851-3502 and/or vs.sprs.cattlehealthcenter@aphis.usda.gov.
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
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.

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Mycobacterium							
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 www.elephantcare.org
Mycoplasma							
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
Ornithobacterium rhinotracheale							
IDENT	Culture	None	\$58.00	M - F	2-7	DBPL/BI	ORT
ISOLATION	Various	Various	\$40.00	M - F	3-14	DBPL/BI	ORT
Ovine progressive pneumonia							
ELISA	Serum	Ice pack	\$18.00	W	3	DVL/EO	Two ml minimum. Maedi-Visna.
Parainfluenza-3							
VI	Tissue, swab	Ice pack	\$52.00	M - F	15	DVL/BPA	Nasal swab. Shipping fever, virus pneumonia

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Parainfluenza-3							
VN	Serum	Ice pack	\$14.00	Th	7	DVL/BPA	
Parasites, blood							
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.
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	\$7.75	Tu, Th	4	DBRL/SERO	Two ml minimum. Salmonella abortus-equi, equidae.
Piroplasmosis, bovine							
CF	Serum	Ice pack	\$18.00	W	4	DBRL/SERO	Two ml minimum. Babesia bovis and B. bigemina, user fee is per species.
Piroplasmosis, equine							
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.

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Piroplasmosis, equine							
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	Tu, 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.
Porcine delta coronavirus							
PCR	Feces, tissue, rectal swabs	Ice pack	\$56.00		4	DVL/BPA	This PCR assay detects and differentiates porcine epidemic diarrhea virus, transmissible gastroenteritis virus, and porcine deltacoronavirus. Contact laboratory for arrangements (515) 337-7551.
VI	Feces, tissue, rectal swabs	Ice pack	\$52.00	M - F	35	DVL/BPA	
Porcine epidemic diarrhea							
PCR	Feces, tissue, rectal swabs	Ice pack	\$56.00	Call	4	DVL/BPA	This PCR assay detects and differentiates porcine epidemic diarrhea virus, transmissible gastroenteritis virus, and porcine deltacoronavirus. Contact laboratory for arrangements (515) 337-7551.
VI	Feces, tissue, rectal swabs	Ice pack	\$52.00	M - F	35	DVL/BPA	

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Porcine hemagglutinating encephalomyelitis virus							
HI	Serum	Ice pack	\$16.00	M - F	2	DVL/BPA	Two ml minimum
VI	Tissue	Ice pack	\$52.00	M - F	15	DVL/BPA	Lung or brain
Porcine parvovirus							
HI	Various	Ice pack	\$16.00	Th	2	DVL/BPA	Serum or fetal fluid--two ml minimum
VI	Tissue	Ice pack	\$52.00	M - F	25	DVL/BPA	
Porcine reproductive and respiratory syndrome							
ELISA	Serum	Ice pack	\$18.00	M - F	3	DVL/BPA	PRRS
IFA	Serum	Ice pack	\$16.00	M - F	3	DVL/BPA	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/BPA	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

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Porcine rubulavirus**							
HI	Serum	Ice pack	\$16.00	M - F	2	DVL/BPA	a/k/a Blue eye paramyxovirus, Two ml minimum. porcine BEP
VI	Tissue, swab	Ice pack	\$52.00	M - F	21	DVL/BPA	a/k/a Blue eye paramyxovirus
Porcine sapelovirus							
IFA	Serum	Ice pack	\$16.00	M - F	5-7	DVL/BPA	Formerly Porcine enterovirus A or PEV 8
VI	Tissue	Ice pack	\$52.00	M - F	25	DVL/BPA	Formerly Porcine enterovirus A or PEV 8
Porcine teschovirus							
IFA	Serum	Ice pack	\$16.00	M - F	5-7	DVL/BPA	Seven groups, user fee is per group, (formerly PEV 1-7)
VI	Tissue	Ice pack	\$52.00	M - F	25	DVL/BPA	SMEDI (Stillbirth, mummification, embryonic death & infertility), formerly PEV 1-7 & porcine polioencephalomyelitis, if suspect Teschan disease (PTV1) contact state of federal vet before shipment
Pox							
EM	Tissue	Ice pack	\$56.00	M - F	5	DVL/BPA	ID virus in lesion
VI	Tissue	Ice pack	\$52.00	M - F	21	DVL/BPA	

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Pseudocowpox							
IFA	Serum	Ice pack	\$16.00	M - F	3	DVL/BPA	Two ml minimum
VI	Tissue	Ice pack	\$52.00	M - F	21	DVL/BPA	
Pseudorabies							
ALA	Serum	Ice pack	\$18.00	M - F	2	DVL/BPA	Two ml minimum. aka Autolex; replaces manual LAT
ELISA	Serum	Ice pack	\$18.00	M - F	2	DVL/BPA	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/BPA	
VN	Serum	Ice pack	\$14.00	F	3	DVL/BPA	Two ml minimum
Psittacine herpesvirus							
IFA	Serum	Ice pack	\$16.00	M - F	4	DVL/AV	One ml minimum
Pullorum-typhoid							
AGGL	Serum	Ice pack	\$7.75	M - Th	3	DBPL/BI	
ISOLATION	Tissue	Ice pack	\$40.00	M - F	7	DBPL/BI	Pullorum disease will be reported to the State Veterinarian and NPIP Staff Veterinarian

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Q-fever							
CF	Serum	Ice pack	\$18.00	Tu, Th	4	DVL/EO	Two ml minimum. Coxiella burnetti.
ELISA	Serum	Ice pack	\$18.00	M, W	3	DVL/EO	Two ml minimum
Reovirus							
IFA	Serum	Ice pack	\$16.00	M - F	5-7	DVL/BPA	
VI	Tissue	Ice pack	\$52.00	M - F	15	DVL/BPA	Porcine only
Rotavirus							
EM	Feces	Ice pack	\$56.00	M - F	5	DVL/BPA	Identification
IFA	Serum	Ice pack	\$16.00	M - F	3	DVL/BPA	Bovine and porcine
VI	Tissue, feces	Ice pack	\$52.00	M - F	21	DVL/BPA	
Salmonella (all subspecies)							
ISOLATION	Various	Various	\$40.00	M - F	7	DBPL/BI	Includes S. pullorum
PFGE	Culture	None	\$64.00	Tu - Th	7	DBPL/BI	
PHAGE TY	Culture	None	\$26.00	M - F	5	DBPL/BI	Salmonella enteritidis phage typing
PHAGE TY	Culture	None	\$46.00	M - F	5	DBPL/BI	Salmonella typhimurium phage typing

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Salmonella (all subspecies)							
SEROTYP	Culture	None	\$40.00	M - F	14	DBPL/BI	
Salmonella enteritidis							
SEROTYP	Culture	None	\$28.00	M - F	2-3	DBPL/BI	Accelerated Salmonella Enteritidis Rule Out
Salmonella typhimurium							
AGGL	Serum	Ice pack	\$7.75	M - Th	3	DBPL/BI	
Schmallenberg**							
PCR	Fetal / newborn brain, placenta, umbilical tissue	Ice pack	\$56.00	Call	3	DVL/EO	Testing done only for FAD investigations. Contact laboratory before shipment (515) 337-7551.
VN	Serum	Ice pack	\$14.00	M, F	4	DVL/EO	Two ml minimum. Testing done only for FAD investigations. Contact laboratory before shipment (515) 337-7551.
Scrapie							
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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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	\$33.00	Varies	10	DBPL/MB	Scrapie susceptibility genotyping for codons 171, 136, 141, 154. All codons are tested automatically. See approved laboratories list if single codon testing is desired. Contact laboratory for details (515) 337-7388.
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) 337-7388, 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	\$58.00	M - F	2-7	DBPL/BI	Including strangles

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Streptococcus							
ISOLATION	Tissue, swab	Ice pack	\$40.00	M - F	2-7	DBPL/BI	Including strangles
Swine influenza							
HI	Serum	Ice pack	\$16.00	M - W	3	DVL/BPA	Multiple serotypes, user fee is per serotype
HI/NI	Viral isolates	Dry ice	\$16.00	M - F	5	DVL/BPA	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/BPA	H1/H3 and N1/N2 subtyping only. If shipping frozen samples, ship on dry ice
rRT-PCR	Viral isolate, swab, lung tissue	Various	\$56.00	M - F	5	DVL/BPA	Influenza A matrix PCR. If shipping frozen samples, ship on dry ice
VI	Tissue	Ice pack	\$52.00	M - F	21	DVL/BPA	
Transmissible gastroenteritis							
PCR	Feces, tissue, rectal swabs	Ice pack	\$56.00	Call	4	DVL/BPA	This PCR assay detects and differentiates porcine epidemic diarrhea virus, transmissible gastroenteritis virus, and porcine deltacoronavirus. Contact Laboratory for arrangements (515) 337-7551.
VI	Feces, tissue, rectal swabs	Ice pack	\$52.00	M - F	21	DVL/BPA	Testing will be longer if feces are submitted

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Transmissible gastroenteritis							
VN	Serum	Ice pack	\$14.00	M - F	5	DVL/BPA	Two ml minimum
Tuberculosis (See also Mycobacterium)							
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	\$112.00	Varies	4	DBRL/SERO	Please direct all inquiries for testing to the Cattle Health Center, at 301-851-3502 and/or vs.sprs.cattlehealthcenter@aphis.usda.gov.
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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Vesicular stomatitis							
CELISA	Serum	Ice pack	\$18.00	M - F	2	DVL/BPA	Two ml minimum. New Jersey and Indiana types, two user fee charges per serum
CF	Serum	Ice pack	\$18.00	M - F	2	DVL/BPA	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/BPA	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	7	DVL/BPA	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/BPA	Two ml minimum. New Jersey and Indiana types, two user fee charges per serum
Vibriosis							
IDENT	Culture	None	\$58.00	M - F	2-7	DBPL/BI	
ISOLATION	Culture	None	\$40.00	M - F	7	DBPL/BI	Vibrio spp.
Viral abortion							
VI	Various	Ice pack	\$52.00	M - F	14-28	DVL/BPA	Serum or fetal fluid--Two ml minimum. and tissue. Bovine and porcine

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West Nile virus							
IgM ELISA	Serum	Ice pack	\$18.00	M, Th	3	DVL/EO	Two ml minimum
PCR	Brain	Dry ice	\$56.00	T, Th	5	DVL/EO	May ship sample refrigerated overnight with ice pack. Subsequent PCR assays (within the DVL/EO lab) on the same sample will be charged ¼ hour each.
PRNT	Serum	Ice pack	\$19.00	F	5	DVL/EO	Two ml minimum
VI	Brain	Dry ice	\$52.00	W,Th,F	16	DVL/EO	(See equine encephalomyelitis) PCR preferred for WNV detection
VN	Serum	Ice pack	\$14.00	F	5	DVL/EO	Two ml minimum. Contact laboratory for arrangements (515) 337-7551.
Yersinia spp.							
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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