

Diagnostic Testing

National Veterinary Services Laboratories - Ames, Iowa

Procedure	Specimens	Shipping Preservative	FY 2013 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
African horsesickness**							
ELISA	Serum	Ice pack	\$18.00	M-F	2	DVL/EO	Two ml minimum. Testing done only for FAD investigations
PCR	Whole blood, spleen, lung, lymph node	Ice pack	\$56.00	M-F	2	DVL/EO	Testing done only for FAD investigations
VI	Whole blood, spleen, lung, lymph node	Ice pack	\$52.00	M-F	20	DVL/EO	Testing done only for FAD investigations
Aino**							
VN	Serum	Ice pack	\$14.00	F	5	DVL/EO	
Akabane**							
VN	Serum	Ice pack	\$14.00	M, F	5	DVL/EO	Two ml minimum. Contact laboratory before shipment--(515) 337-7551.
Anaplasmosis							
CELISA	Serum	Ice pack	\$18.00	W	3	DBL/SERO	Two ml minimum, Anaplasma marginale, cattle
CF	Serum	Ice pack	\$18.00	Th	3	DBL/SERO	Two ml minimum, Anaplasma marginale, cattle

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Procedure	Specimens	Shipping Preservative	FY 2013 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
Anaplasmosis							
MX	Blood	EDTA	\$31.00	M-F	3	PL/PCP	Send whole blood on wet ice
PCR	Whole blood	EDTA	\$112.00	Varies	4	DBL/SERO	Send whole blood on ice pack, EDTA required not heparin, one ml minimum Contact Laboratory for schedule (515) 337-7563
Anthrax							
IDENT	Culture	None	\$101.00	M-F	7	DBL/BI	Bacillus anthracis, contact laboratory for arrangements (515) 337-7565
ISOLATION	Blood	Clotted	\$101.00	M-F	7	DBL/BI	Contact laboratory for arrangements (515) 337-7565
ISOLATION	Various	None	\$101.00	M-F	7	DBL/BI	Contact laboratory for arrangements (515) 337-7565
Aquaculture-related bacterial diseases							
ISOLATION	Various	Ice Pack	\$40.00	Call	10	DBL/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
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

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Avian adenovirus							
VI	Tissue, swab	Dry ice	\$52.00	M-F	18-30	DVL/AV	Chicken embryo lethal orphan
Avian adenovirus 127							
HI	Serum	Ice pack	\$16.00	M-F	3	DVL/AV	One ml minimum. Egg drop syndrome 76
VI	Tissue, swab	Dry ice	\$52.00	M-F	18-30	DVL/AV	
Avian adenovirus group 1							
AGID	Serum	Ice pack	\$18.00	M-F	4	DVL/AV	One ml minimum
Avian adenovirus group 2							
AGID	Serum	Ice pack	\$18.00	M-F	4	DVL/AV	One ml minimum. Hemorrhagic enteritis virus of turkeys, marble spleen disease of pheasants
Avian encephalomyelitis							
AGID	Serum	Ice pack	\$18.00	M-F	4	DVL/AV	One ml minimum
VI	Tissue	Dry ice	\$52.00	M-F	18-30	DVL/AV	
Avian herpesvirus							
IFA	Serum	Ice pack	\$16.00	M-F	4	DVL/AV	One ml minimum (Infectious laryngotracheitis virus)
VI	Tissue	Dry ice	\$52.00	M-F	18-30	DVL/AV	

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Procedure	Specimens	Shipping Preservative	FY 2013 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
Avian infectious bronchitis							
HI	Serum	Ice pack	\$16.00	M-F	3	DVL/AV	Two ml minimum. Four strains (JMK, Mass, Ark, and Conn); user fee is per strain.
VI	Tissue, swab	Dry ice	\$52.00	M-F	18-30	DVL/AV	
Avian influenza**							
AGID	Serum	Ice pack	\$18.00	M-F	4	DVL/AV	Two ml minimum. Fowl plague
HI/NI	Serum	Ice pack	\$16.00	M-F	3	DVL/AV	Two ml minimum, includes HI and NI tests. Sixteen H subtypes available, user fee is per H subtype.
RRT-PCR	Swab	Dry ice	\$56.00	M-F	3	DVL/AV	Single assay will be charged 1/2 hour rate; if a second assay is performed on the same sample using the same extracted nucleic acid the second assay will be charged the 1/4 hour rate.
VI	Tissue, swab	Dry ice	\$52.00	M-F	18-30	DVL/AV	
Avian metapneumovirus							
ELISA	Serum	Ice pack	\$18.00	M-F	3	DVL/AV	One ml minimum. Subgroup A (UK strain), subgroup B (Hungarian strain) and US-Colorado strain, Colorado avian pneumovirus. One ELISA charge per subgroup.
IFA	Serum	Ice pack	\$16.00	M-F	4	DVL/AV	One ml minimum.

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Avian metapneumovirus							
VI	Tissue	Dry ice	\$52.00	M-F	18-30	DVL/AV	
Avian nephritis							
IFA	Serum	Ice pack	\$16.00	M-F	4	DVL/AV	One ml minimum
Avian paramyxovirus type 1**							
HI	Serum	Ice pack	\$16.00	M-F	3	DVL/AV	Two ml minimum. Paramyxovirus type 1
RRT-PCR	Swab	Dry ice	\$56.00	M-F	3	DVL/AV	
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	
Avian paramyxovirus types 2-9							
HI	Serum	Ice pack	\$16.00	M-F	3	DVL/AV	One ml minimum
VI	Tissue, swab	Dry ice	\$52.00	M-F	18-30	DVL/AV	
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	
Avian rotavirus							
EM	Tissue	Dry ice	\$56.00	M-F	7	DVL/AV	

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Avian safety test							
CI	Varies	Dry ice	\$4,180.00	M-F	35	DVL/AV	
Bacterial Antibiotic Sensitivity							
AST	Culture	None	\$19.00	M-F	3	DBL/BI	Antibiotic sensitivity test of bacteria except for Mycobacterium species
Bacterial identification							
IDENT	Culture	None	\$58.00	M-F	7	DBL/BI	
Bacterial isolation							
ISOLATION	Various	Various	\$40.00	M-F	7	DBL/BI	
Blood smears							
MX	Blood	EDTA	\$31.00	M-F	3	PL/PCP	Giemsa-stained for Anaplasma, Babesia, and trypanosomes
Bluetongue							
AGID	Serum	Ice pack	\$18.00	M-F	2	DVL/EO	Two ml minimum
CELISA	Serum	Ice pack	\$18.00	M,W,F	2	DVL/EO	Two ml minimum
CF	Serum	Ice pack	\$18.00	Tu, Th	3	DVL/EO	Two ml minimum
PCR	Blood, spleen	Ice pack	\$56.00	M-F	2	DVL/EO	Four ml minimum, collect whole blood in EDTA or heparin; do not freeze blood, refrigerate
VI	Blood, spleen	Ice pack	\$52.00	1,W,Th,	20	DVL/EO	Heparinized or EDTA blood, tissue, spleen, washed RBCs; do not freeze blood, refrigerate

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Bluetongue							
VI	Semen	Dry ice	\$52.00	1,W,Th,	20	DVL/EO	Keep frozen; test 0.5 ml non-extended semen or equivalent
VN	Serum	Ice pack	\$14.00	Tu, F	5	DVL/EO	Two ml minimum. Five serotypes, user fee is per serotype
Botulism							
ISOLATION	Various	Various	\$101.00	M-F	7	DBL/BI	Clostridium botulinum, contact laboratory for arrangements (515) 337-7565
TOXIN TYPIN	Various	Various	\$131.00	M-F	21	DBL/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	15	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

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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	
Bovine leukosis							
AGID	Serum	Ice pack	\$18.00	M-F	2	DVL/EO	Two ml minimum
ELISA	Serum	Ice pack	\$18.00	M,W,F	2	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 (515) 337-7551.
VN	Serum	Ice pack	\$14.00	Th	7	DVL/BPA	Two ml minimum
Bovine spongiform encephalopathy							
HISTO	Block/brain stem	None	\$0.00	M-F	2	PL/PS	Formalin fixed - paraffin-embedded tissue blocks

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Bovine spongiform encephalopathy							
HISTO	Fixed tissue/brain stem	Formalin	\$0.00	M-F	10	PL/PS	Brain stem essential for all submissions
HISTO	Slide/brain stem	None	\$0.00	M-F	5	PL/PS	Slide stained with hematoxylin and eosin
IHC	Block/brain stem	None	\$0.00	M-F	10	PL/PS	Formalin fixed - paraffin-embedded tissue blocks
IHC	Fixed tissue/brain stem	Formalin	\$0.00	M-F	10	PL/PS	Brain stem essential for all submissions
IHC	Slide/brain stem	None	\$0.00	M-F	10	PL/PS	Contact laboratory (515) 337-7064
Bovine viral diarrhea							
PCR	Virus isolate	Ice pack	\$56.00	M-F	7-14	DVL/BPA	Mucosal disease--differential for types I and II, sample required is a viral isolate
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	T,W,Th	3	DBL/SERO	Two ml minimum, bovine and porcine
BAPA	Serum	Ice pack	\$8.00	M	3	DBL/SERO	Bang's disease, two ml minimum

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Brucella abortus							
BRT	Milk	Ice pack	\$40.00	M-F	2	DBL/MB	Two ml minimum
CF COLD	Serum	Ice pack	\$18.00	W	3	DBL/SERO	Two ml minimum
CF WARM	Serum	Ice pack	\$18.00	Th	3	DBL/SERO	Two ml minimum
ELISA	Serum	Ice pack	\$18.00	W	3	DBL/SERO	Two ml minimum
FPA	Serum	Ice pack	\$28.00	M,Th	3	DBL/SERO	Two ml minimum
HIRT	Milk	Ice pack	\$40.00	M-F	2	DBL/MB	Five ml minimum
PLATE,SPT	Serum	Ice pack	\$7.75	M	3	DBL/SERO	Two ml minimum
RAP	Serum	Ice pack	\$7.25	T, Th	3	DBL/SERO	Two ml minimum
RIVANOL	Serum	Ice pack	\$7.75	M	3	DBL/SERO	Two ml minimum
TUBE	Semen	Ice pack	\$7.75	M-W	3	DBL/SERO	Two ml minimum
TUBE,STT	Serum	Ice pack	\$7.75	M-W	3	DBL/SERO	Two ml minimum
WBLOT	Serum	Ice pack	\$33.00	Varies	4	DBL/SERO	Two ml minimum, Contact Laboratory for schedule (515) 337-7563
Brucella canis							
ELISA	Serum	Ice pack	\$18.00	Varies	3	DBL/SERO	Two ml minimum, Contact Laboratory for schedule (515) 337-7563
ME TUBE	Serum	Ice pack	\$7.75	M-W	3	DBL/SERO	Two ml minimum

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Brucella melitensis							
3% CARD	Serum	Ice pack	\$4.50	T,W,Th	3	DBL/SERO	Two ml minimum
Brucella ovis							
CF	Serum	Ice pack	\$18.00	Th	3	DBL/SERO	Two ml minimum
ELISA	Serum	Ice pack	\$18.00	T, Th	3	DBL/SERO	Two ml minimum
Brucellosis							
IDENT	Culture	None	\$98.00	M-F	7	DBL/MB	
ISOLATION	Various	Dry ice	\$40.00	M-F	10	DBL/MB	Tissue, milk, semen, etc.
PCR	Culture	None	\$101.00	M-F	2	DBL/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	7	DBL/BI	Contact laboratory for shipping conditions (515) 337-7565
ISOLATION	Tissue	Ice pack	\$40.00	M-F	7	DBL/BI	
Caprine arthritis encephalitis							
AGID	Serum	Ice pack	\$18.00	M,W,F	2	DVL/EO	Two ml minimum

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Caprine arthritis encephalitis							
ELISA	Serum	Ice pack	\$18.00	M, W	2	DVL/EO	
Chicken anemia virus							
IFA	Serum	Ice pack	\$16.00	M-F	4	DVL/AV	One ml minimum
Chlamydia psittaci							
CF	Serum	Ice pack	\$18.00	M,W,F	3	DVL/EO	Two ml minimum, ornithosis, parrot fever, enzootic ovine abortion
ISOLATION	Various	Ice pack	\$52.00	Tu, F	14	DVL/AV	Tissue, swab, and feces. Do not freeze specimens for isolation.
Chronic wasting disease							
HISTO	Block/brain stem	None	\$28.00	M-F	10	PL/PS	Formalin fixed - paraffin-embedded tissue blocks
HISTO	Fixed tissue/brain stem	Formalin	\$28.00	M-F	10	PL/PS	Brain stem is essential for all submissions
HISTO	Slide/brain stem	None	\$28.00	M-F	5	PL/PS	Slide stained with hematoxylin and eosin
IHC	Block tissue	None	\$40.00	M-F	10	PL/PS	Formalin fixed - paraffin-embedded tissue blocks. Whenever possible retropharyngeal lymph node and tonsil should also be submitted.
IHC	Fixed tissue/brain stem	Formalin	\$40.00	M-F	10	PL/PS	Brain stem is essential for all submissions. Whenever possible retropharyngeal lymph node and tonsil should also be submitted.

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Chronic wasting disease							
IHC	Slides	None	\$40.00	M-F	10	PL/PS	Contact laboratory (515) 337-7064
Clostridium chauvoei							
IDENT	Culture	None	\$58.00	M-F	7	DBL/BI	Blackleg
ISOLATION	Tissue	Ice pack	\$40.00	M-F	7	DBL/BI	
Clostridium perfringens							
IDENT	Culture	Ice pack	\$58.00	M-F	7	DBL/BI	Identification only, no toxin typing
ISOLATION	Tissue	Ice pack	\$40.00	M-F	7	DBL/BI	Enterotoxemia
Coccidia							
IDENT	Feces	Fresh/form	\$0.00	M-F	3	PL/PCP	Identification of coccidia in fecal sample
Contagious ecthyma							
CF	Serum	Ice pack	\$18.00	Tu, Th	3	DVL/EO	Two ml minimum, orf, contagious pustular dermatitis
EM	Lesion	Ice pack	\$56.00	M-F	2	DVL/EO	Lesions suggestive of FMD must be submitted to FADDL.
Contagious equine metritis							
CF	Serum	Ice pack	\$18.00	M & Th	3	DBL/SERO	Two ml minimum, Taylorella equigenitalis. Contact laboratory for details 515-337-7563
ISO & ID	Swab, culture	Ice pack	\$101.00	M-F	7	DBL/BI	Taylorella equigenitalis. Swab must be received refrigerated within 48 hrs of collection and in Amies transport medium with charcoal

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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 TGE only
Corynebacterium							
IDENT	Culture	None	\$58.00	M-F	7	DBL/BI	
ISOLATION	Tissue	Ice pack	\$40.00	M-F	7	DBL/BI	
Coryza, infectious							
IDENT	Culture	None	\$58.00	M-F	10	DBL/BI	
ISOLATION	Tissue, swab	Ice pack	\$40.00	M-F	10	DBL/BI	Haemophilus paragallinarum
Coryza, turkey							
IDENT	Culture	None	\$58.00	M-F	7	DBL/BI	Bordetella avium
ISOLATION	Tissue, swab	Ice pack	\$40.00	M-F	7	DBL/BI	
Cysticercosis							
IDENT	Tissue	Formalin	\$0.00	M-F	2	PL/PCP	

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Dourine							
AGID	Serum	Ice pack	\$18.00	Th	3	DBL/SERO	Two ml minimum, Trypanosoma equiperdum. This test is not currently available for equids located in the US for export purposes.
CF	Serum	Ice pack	\$18.00	M-F	3	DBL/SERO	Two ml minimum, Trypanosoma equiperdum. This test is not currently available for equids located in the US for export purposes.
MX	Blood	EDTA	\$31.00	M-F	3	PL/PCP	
Duck viral enteritis							
IFA	Serum	Ice pack	\$16.00	M-F	4	DVL/AV	Two ml minimum
VI	Tissue	Dry ice	\$52.00	M-F	30	DVL/AV	
VN	Serum	Ice pack	\$14.00	M-F	10	DVL/AV	Two ml minimum
Electron microscopy							
EM	Various	Dry ice	\$56.00	M-F	2-5	DVL/EO	Tissue culture isolates, intestinal contents, lesions
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
Eperythrozoonosis							
MX	Blood	EDTA	\$31.00	M-F	3	PL/PCP	

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Epizootic hemorrhagic disease							
AGID	Serum	Ice pack	\$18.00	M-F	2	DVL/EO	Two ml minimum
PCR	Blood, spleen	Ice pack	\$56.00	M-F	2	DVL/EO	Do not freeze, refrigerate whole blood collected in EDTA or heparin.
VI	Blood, spleen	Ice pack	\$52.00	W,Th,F	20	DVL/EO	Whole blood collected in EDTA or heparin. Do not freeze. Ship refrigerated overnight
VI	Semen	Dry ice	\$52.00	W,Th,F	20	DVL/EO	Keep frozen; test 0.5 ml non-extended semen or equivalent
VN	Serum	Ice pack	\$14.00	Tu, 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	16	DVL/EO	
VN	Serum	Ice pack	\$14.00	M, F	4	DVL/EO	Two ml minimum, equine
Equine encephalomyelitis							
CF	Serum	Ice pack	\$18.00	W	3	DVL/EO	Two ml minimum, user fee is per strain
HI	Serum	Ice pack	\$16.00	W	3	DVL/EO	Two ml minimum, user fee is per strain
IgM ELISA	Serum	Ice pack	\$18.00	M,Th	2	DVL/EO	Two ml minimum, user fee is per strain

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Equine encephalomyelitis							
PCR	Brain	Dry ice	\$56.00	M-F	2	DVL/EO	Multiplex procedure detects EEE, WEE, and WNV. May ship refrigerated overnight.
PRNT	Serum	Ice pack	\$19.00	Tu	4	DVL/EO	Two ml minimum, Eastern, Western, and Venezuelan, user fee is per strain
VI	Brain, CSF, whole blood	Dry ice	\$52.00	W,Th,F	14	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	Dry ice	\$56.00	Varies	2	DVL/EO	Strain Differentiation. Ship whole blood refrigerated. Contact laboratory to arrange (515) 337-7551
PCR	Tissue, nasal swab, whole blood	Dry ice	\$56.00	Varies	2	DVL/EO	Includes EHV-4 PCR. Ship whole blood refrigerated
VI	Tissue, nasal swab, whole blood	Dry ice	\$52.00	W, Th	14	DVL/EO	Ship whole blood refrigerated.
VN	Serum	Ice pack	\$14.00	M, F	4	DVL/EO	Two ml minimum

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Procedure	Specimens	Shipping Preservative	FY 2013 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
Equine herpesvirus 2							
VI	Swabs, whole blood	Dry ice	\$52.00	W, Th	14	DVL/EO	Cytomegalovirus
VN	Serum	Ice pack	\$14.00	M, F	4	DVL/EO	Two ml minimum
Equine herpesvirus 3							
VI	Lesions, swabs	Dry ice	\$52.00	W, Th	14	DVL/EO	Coital exanthema
VN	Serum	Ice pack	\$14.00	M, F	4	DVL/EO	Two ml minimum
Equine herpesvirus 4							
PCR	Tissue, nasal swab, whole blood	Dry ice	\$56.00	Varies	2	DVL/EO	Includes EHV-1 PCR. Ship whole blood refrigerated
VI	Tissue, swab, whole blood	Dry ice	\$52.00	W, Th	14	DVL/EO	Ship whole blood refrigerated
VN	Serum	Ice pack	\$14.00	M, F	4	DVL/EO	Two ml minimum, does not differentiate between herpesvirus 1 and 4.
Equine infectious anemia							
AGID	Serum	Ice pack	\$18.00	M-F	2	DVL/EO	Two ml minimum, no charge for confirmation of positives
ELISA	Serum	Ice pack	\$18.00	M-F	2	DVL/EO	Two ml minimum
WBLOT	Serum	Ice pack	\$112.00	M-F	3	DVL/EO	Contact laboratory for details--(515) 337-7551.

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Equine influenza							
HI	Serum	Ice pack	\$16.00	W	2	DVL/EO	User fee is per antigen; three antigens are used for each HI.
PCR	Tissue, nasal swab	Dry ice	\$56.00	Varies	2	DVL/EO	
VI	Tissue, nasal swab	Dry ice	\$52.00	M,W-F	20	DVL/EO	A1 - H7N7, A2 - H3N8 (Extra time required for isolate identification)
Equine rhinitis virus							
VI	Lung tissue, nasal swab	Dry ice	\$52.00	W, Th	16	DVL/EO	Extra time required for isolate identification
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	Dry ice	\$52.00	M-F	14	DVL/EO	Ship whole blood refrigerated
VN	Serum	Ice pack	\$14.00	M, F	4	DVL/EO	Two ml minimum
Erysipelas							
IDENT	Culture	None	\$58.00	M-F	7	DBL/BI	Erysipelothrix rhusiopathiae
ISOLATION	Tissue	Ice pack	\$40.00	M-F	7	DBL/BI	

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External parasites							
IDENT	Parasite	EtOH, IPA	\$0.00	M-F	1	PL/PCP	Fleas, lice, mange, mites, myiasis, scabies, screwworms, ticks
Fetal bovine serum safety test							
SI	Serum	Dry ice	\$1,160.00	F	35	DVL/EO	Contact State or Federal veterinarian for special requirements for testing before submitting serum.
Fluke							
IDENT	Parasite	EtOH, IPA	\$0.00	M-F	1	PL/PCP	Species identification
Fowl cholera							
DNA FP	Culture	None	\$64.00	M-F	30	DBL/BI	
GDPT	Culture	None	\$20.00	W-F	7	DBL/BI	Somatic antigen typing
IDENT	Culture	None	\$58.00	M-F	7	DBL/BI	
ISOLATION	Tissue	Ice pack	\$40.00	M-F	7	DBL/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	3	DBL/SERO	Two ml minimum, Burkholderia mallei. This test is not currently available for equids located in the US for export purposes.

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Procedure	Specimens	Shipping Preservative	FY 2013 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
Glanders							
ELISA	Serum	Ice pack	\$18.00	F	3	DBL/SERO	Two ml minimum. This test is not currently available for equids located in the US for export purposes.
IDENT	Culture	None	\$101.00	M-F	21	DBL/BI	(Burkholderia mallei) Contact laboratory for contact laboratory for arrangements (515) 337-7565
ISOLATION	Various	Ice pack	\$101.00	M-F	7	DBL/BI	(Burkholderia mallei) Contact laboratory for contact laboratory for arrangements (515) 337-7565
Goose parvovirus**							
IFA	Serum	Ice pack	\$16.00	M-F	4	DVL/AV	Goose hepatitis, Derzsy's disease
Heartwater**							
PCR	Blood (EDTA)	Ice pack	\$56.00	M-F	4	DVL/BPA	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	
Hemagglutinating encephalomyelitis							
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
High performance liquid chromatography							
HPLC-UV	Grain-Corn	None	\$0.00	M-F	5	PL/CAS	Ivermectin

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Procedure	Specimens	Shipping Preservative	FY 2013 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
High performance liquid chromatography							
HPLC-UV	Various	None	\$0.00	M-F	3	PL/CAS	Amitraz
HPLC-UV	Various	None	\$0.00	M-F	3	PL/CAS	Coumphos/Potasan
Histopathology							
HISTO	Fixed tissue	Formalin	\$112.00	M-F	5	PL/PS	
Ibaraki**							
VN	Serum	Ice pack	\$14.00	Tu, F	5	DVL/EO	Testing done only for FAD investigations and importation of animals from other countries
Infectious bursal disease							
AGID	Serum	Ice pack	\$18.00	M-F	4	DVL/AV	One ml minimum. Gumboro disease
VI	Tissue	Dry ice	\$52.00	M-F	30	DVL/AV	
Infectious laryngotracheitis							
IFA	Serum	Ice pack	\$16.00	M-F	4	DVL/AV	One ml minimum
VI	Tissue	Dry ice	\$52.00	M-F	30	DVL/AV	
Internal parasites							
FECX	Parasite	EtOH, IPA	\$31.00	M-F	3	PL/PCP	Coccidia, flukes, roundworms, and tapeworms
Johne's disease							
AGID	Serum	Ice pack	\$18.00	M-W	3	DBL/SERO	Two ml minimum

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Johne's disease							
CF	Serum	Ice pack	\$18.00	F	3	DBL/SERO	Two ml minimum, Mycobacterium paratuberculosis
ELISA	Serum, milk	Ice pack	\$18.00	Th	3	DBL/SERO	Two ml minimum
FECAL PCR	Feces	Ice pack	\$33.00	M-F	14	DBL/MB	Two gram minimum
IS1311	Culture, tissue	None	\$101.00	M-F	5	DBL/MB	IS1311 Sheep and cattle paratuberculosis strain differentiation
ISO/IDENT	Tissue, feces, culture	Ice pack	\$79.00	M-W	56	DBL/MB	Bactec 460, Trek ESP, MGIT 960, HEY
Klebsiella							
IDENT	Culture	None	\$58.00	M-F	7	DBL/BI	Serotyping is not available
ISOLATION	Tissue	Ice pack	\$40.00	M-F	7	DBL/BI	
Larvae							
IDENT	Parasite	EtOH, IPA	\$0.00	M-F	1	PL/PCP	ID to species
Leptospirosis							
ISO	Kidney/liver fresh not frozen	Ice pack	\$56.00	M-F	30	DBL/BI	Contact laboratory before submitting (515) 337-7342
MAT	Serum	Ice pack	\$26.00	W	6	DBL/BI	Samples must be received by 11:00 am on Wednesday for testing; additional charge for more than 5 serovars.

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Procedure	Specimens	Shipping Preservative	FY 2013 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
Leptospirosis							
PCR	Tissue/urine	Ice pack	\$56.00	M-F	7	DBL/BI	
Lice							
IDENT	Parasite	EtOH, IPA	\$0.00	M-F	1	PL/PCP	ID to species
Listeriosis							
IDENT	Culture	None	\$58.00	M-F	7	DBL/BI	Listeria spp.
ISOLATION	Tissue	Ice pack	\$40.00	M-F	7-42	DBL/BI	
Maggots							
IDENT	Parasite	EtOH, IPA	\$0.00	M-F	1	PL/PCP	ID to species
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	\$56.00	M-F	7-14	DVL/BPA	Differentiates between alcelaphine herpesvirus 1 and ovine herpesvirus 2
PCR	Tissue	Ice pack	\$56.00	M-F	7-14	DVL/BPA	Differentiates between alcelaphine herpesvirus 1 and ovine herpesvirus 2

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Malignant catarrhal fever							
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)
Mange							
IDENT	Parasite	EtOH, IPA	\$0.00	M-F	1	PL/PCP	ID to species
IDENT	Scrapings	Dry	\$0.00	M-F	1	PL/PCP	ID to species
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	DBL/BI	(Burkholderia pseudomallei) Contact laboratory for arrangements (515) 337-7565
ISOLATION	Various	Ice pack	\$101.00	M-F	7	DBL/BI	(Burkholderia pseudomallei) Contact laboratory for arrangements (515) 337-7565
Mites							
IDENT	Parasite	EtOH, IPA	\$0.00	M-F	1	PL/PCP	ID to species
IDENT	Scrapings	Dry	\$0.00	M-F	1	PL/PCP	ID to species

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Mycobacterium							
AFS	Fluid, culture	Various	\$28.00	M-F	2	DBL/MB	Direct acid fast stain on clinical specimens
AST	Culture	None	\$114.00	Call	28	DBL/MB	Mycobacterium tuberculosis complex, antibiotic sensitivity test performed on M. tuberculosis complex only, contact laboratory at (515)337-7388 for test schedule
DNA PROBE	Culture	Various	\$89.00	M-F	2	DBL/MB	DNA probe
GAMMA INF	Heparinized blood	Ice pack	\$112.00	T,W,Th	3	DBL/SERO	Bovine, primate, and cervid samples must arrive within 24 hours of sample collection. Do not freeze samples. Six ml minimum. Report on Friday
HISTO	Block containing lesion	None	\$112.00	M-F	1	PL/PS	Formalin fixed - paraffin-embedded tissue blocks
HISTO	Fixed tissue containing lesion	Formalin	\$112.00	M-F	2	PL/PS	Tissues should not be decalcified
ICG	Serum	Ice pack	\$112.00	M-Th	3	DBL/SERO	Stat-Pak Test for Elephants
IDENT	Culture	None	\$58.00	M-F	56	DBL/MB	Identification of acid fast bacteria includes biochemical analysis and 16s rDNA sequencing analysis

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Mycobacterium							
ISOLATION	Tissue, swabs, washes	Various	\$40.00	M-F	60	DBL/MB	Contact laboratory at (515) 337-7388 for details. Shipping preservative - ice pack or Na Borate
PCR	Block containing lesion	None	\$112.00	M-F	7	PL/PS	Formalin fixed - paraffin-embedded tissue blocks, tissues should be in formalin less than 10 days
PCR	Fixed tissue containing lesion	Formalin	\$112.00	M-F	10	PL/PS	Tissues should not be decalcified. Tissue should be in formalin less than 10 days. Acid fast bacteria must be present to perform PCR testing.
STAT-PAK	Serum	Ice pack	\$12.00	M-F	5	DBL/SERO	Stat-Pak Test for Cervid
TRUNKW	Fluid	Ice pack	\$40.00	M-F	60	DBL/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	DBL/BI	Two ml minimum, Mycoplasma gallisepticum, M. meleagridis, and M. synoviae
PLATE	Serum	Ice pack	\$7.75	M-F	3	DBL/BI	Two ml minimum, Mycoplasma gallisepticum, M. meleagridis, and M. synoviae
Myiasis							
IDENT	Parasite	EtOH, IPA	\$0.00	M-F	1	PL/PCP	ID of fly larvae to species

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Procedure	Specimens	Shipping Preservative	FY 2013 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
Ornithobacterium rhinotracheale							
IDENT	Culture	None	\$58.00	M-F	7	DBL/BI	ORT
ISOLATION	Various	Various	\$40.00	M-F	14	DBL/BI	ORT
Ovine progressive pneumonia							
AGID	Serum	Ice pack	\$18.00	M-F	2	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
VN	Serum	Ice pack	\$14.00	Th	7	DVL/BPA	
Parasites							
IDENT	Parasite	EtOH, IPA	\$0.00	M-F	1	PL/PCP	ID to species
Paratyphoid							
TUBE	Serum	Ice pack	\$7.75	M-Th	3	DBL/SERO	Two ml minimum, Salmonella abortus-equi, equidae
Piroplasmosis, bovine							
CF	Serum	Ice pack	\$18.00	W	3	DBL/SERO	Two ml minimum. Babesia bovis and B. bigemina, user fee is per species.
IFA	Serum	Ice pack	\$16.00	T,W,Th	3	DBL/SERO	Two ml minimum. Babesia bovis and B. bigemina, user fee is per species.
MX	Blood, smear	EDTA	\$31.00	M-F	3	PL/PCP	

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Piroplasmosis, equine							
CELISA	Serum	Ice pack	\$18.00	M-F	3	DBL/SERO	Two ml minimum. Babesia caballi and Babesia (Theileria) equi, user fee is per species.
CF	Serum	Ice pack	\$18.00	M-F	3	DBL/SERO	Two ml minimum. Babesia caballi and Babesia (Theileria) equi, user fee is per species.
IFA	Serum	Ice pack	\$16.00	T,W,Th	3	DBL/SERO	Two ml minimum. Babesia caballi and Babesia (Theileria) equi, user fee is per species.
MX	Blood, smear	EDTA	\$31.00	M-F	3	PL/PCP	
PCR	Blood	EDTA	\$112.00	Varies	4	DBL/SERO	EDTA required, not heparin 1 ml minimum. Contact Laboratory for schedule (515) 337-7563
Porcine enterovirus A							
IFA	Serum	Ice pack	\$16.00	M-F	5-7	DVL/BPA	Formerly PEV 8
VI	Tissue	Ice pack	\$52.00	M-F	25	DVL/BPA	Formerly PEV 8
Porcine epidemic diarrhea**							
PCR	Feces, tissue	Ice pack	\$56.00	Call lab	4	DVL/BPA	Testing done only for FAD investigations.
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	

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Procedure	Specimens	Shipping Preservative	FY 2013 User Fee	On Test Days	Est. Time for Results* (Days)	Testing Lab	Comments
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
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 teschovirus							
IFA	Serum	Ice pack	\$16.00	M-F	5-7	DVL/BPA	7 groups, user fee is per group, (formerly PEV 1-7)
PCR	Viral isolate	Ice pack	\$56.00	M-F	3	DVL/BPA	For detection of PTV1, formerly PEV1 & Teschan

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Porcine teschovirus							
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 Teshan disease (PTV1) contact state of federal vet before shipment
Potential Hydrogen (pH)							
pH	Various	None	\$0.00	M-F	1	PL/CAS	
Potomac horse fever							
IFA	Serum	Ice pack	\$16.00	M-F	3	DVL/EO	Two ml minimum, Ehrlichia risticii
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	
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	
Pseudomonas							
IDENT	Culture	None	\$58.00	M-F	7	DBL/BI	
ISOLATION	Tissue	Ice pack	\$40.00	M-F	7	DBL/BI	

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Pseudorabies							
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
LAT	Serum	Ice pack	\$18.00	M-F	2	DVL/BPA	Two ml minimum
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
VI	Swab	Dry ice	\$52.00	M-F	30	DVL/AV	
Pullorum-typhoid							
AGGL	Serum	Ice pack	\$7.75	M-Th	3	DBL/BI	
ISOLATION	Tissue	Ice pack	\$40.00	M-F	7	DBL/BI	Pullorum disease will be reported to the State Veterinarian and NPIP Staff Veterinarian
Q-fever							
CF	Serum	Ice pack	\$18.00	Tu, Th	3	DVL/EO	Two ml minimum, Coxiella burnetti
ELISA	Serum	Ice pack	\$18.00	Varies	3	DVL/EO	Two ml minimum
Reovirus							
IFA	Serum	Ice pack	\$16.00	M-F	5-7	DVL/BPA	

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Reovirus							
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	DBL/BI	Includes S. pullorum
PFGE	Culture	None	\$64.00	T-Th	7	DBL/BI	
PHAGE TY	Culture	None	\$46.00	M-F	5	DBL/BI	Salmonella typhimurium phage typing
PHAGE TY	Culture	None	\$26.00	M-F	5	DBL/BI	Salmonella enteritidis phage typing
SEROTYP	Culture	None	\$40.00	M-F	14	DBL/BI	
Salmonella enteritidis							
SEROTYP	Culture	None	\$28.00	M-F	2-3	DBL/BI	Accelerated Salmonella Enteritidis Rule Out
Salmonella typhimurium							
AGGL	Serum	Ice pack	\$7.75	M-Th	3	DBL/BI	
Scabies							
IDENT	Parasite	EtOH, IPA	\$0.00	M-F	1	PL/PCP	ID of mites to species

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Scabies							
IDENT	Skin scraping	Dry	\$0.00	M-F	1	PL/PCP	ID of mites to species
Scrapie							
HISTO	Block/brain stem	None	\$0.00	M-F	5	PL/PS	Formalin fixed - paraffin-embedded tissue blocks
HISTO	Fixed tissue/brain stem	Formalin	\$0.00	M-F	5	PL/PS	Brain stem is essential for all submissions
HISTO	Slide/brain stem	None	\$0.00	M-F	5	PL/PS	Slide stained with hematoxylin and eosin
IHC	Block tissue	None	\$0.00	M-F	5	PL/PS	Formalin fixed - paraffin-embedded tissue blocks. Whenever possible retropharyngeal lymph node and tonsil should also be submitted.
IHC	Fixed tissue/brain stem	Formalin	\$0.00	M-F	10	PL/PS	Brain stem is essential for all submissions. Whenever possible retropharyngeal lymph node and tonsil should also be submitted.
IHC	Slides	None	\$0.00	M-F	5	PL/PS	Contact laboratory (515) 337-7064
Screwworm							
IDENT	Parasite	EtOH, IPA	\$0.00	M-F	1	PL/PCP	ID of fly larvae to species
Serum screen							
CHEM	Serum, blood	Ice pack	\$0.00	M-F	Varies	PL/PCP	Contact laboratory--(515) 337-7065.

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Streptococcus							
IDENT	Culture	None	\$58.00	M-F	7	DBL/BI	Including strangles
ISOLATION	Tissue, swab	Ice pack	\$40.00	M-F	7	DBL/BI	Including strangles
Swine influenza							
HI	Serum	Ice pack	\$16.00	M,T,W	3	DVL/BPA	Multiple serotypes. User fee is per serotype.
HI/NI	Viral isolates	Dry ice	\$16.00	M-F	5	DVL/BPA	For 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.
VI	Tissue	Ice pack	\$52.00	M-F	21	DVL/BPA	
Tapeworm							
FECX	Parasite	EtOH, IPA	\$0.00	M-F	1	PL/PCP	ID of adult to species
Transmissible gastroenteritis							
FATST	Tissue	Ice pack	\$31.00	M-F	5	DVL/BPA	
VI	Tissue	Ice pack	\$52.00	M-F	15	DVL/BPA	
VN	Serum	Ice pack	\$14.00	M-F	5	DVL/BPA	Two ml minimum
Tuberculosis (See also Mycobacterium)							
GAMMA INF	Heparinized blood	Ice pack	\$112.00	T,W,Th	3	DBL/SERO	Bovine, primate, and cervid samples must arrive within 24 hours of sample collection. Do not freeze samples. Six ml minimum. Report on Friday.

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Tuberculosis (See also Mycobacterium)							
ICG	Serum	Ice pack	\$112.00	M-Th	3	DBL/SERO	Stat-Pak Test for Elephants
STAT-PAK	Serum	Ice pack	\$12.00	M-F	5	DBL/SERO	Stat-Pak Test for Cervid
Tularemia							
IDENT	Culture	None	\$101.00	M-F	7	DBL/BI	Contact laboratory for arrangements (515) 337-7565
ISOLATION	Tissue	Ice pack	\$101.00	M-F	7	DBL/BI	Contact laboratory for arrangements (515) 337-7565
PLATE	Serum	Ice pack	\$7.75	M-F	3	DBL/SERO	Francisella tularensis, Two ml minimum
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
VI	Insect pool	Dry ice	\$52.00	M-F	7	DVL/BPA	Must be kept frozen
VI	Tissue, fluid	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	M,W,F	3	DVL/BPA	Two ml minimum. New Jersey and Indiana types, two user fee charges per serum

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Vibriosis							
IDENT	Culture	None	\$58.00	M-F	7	DBL/BI	
ISOLATION	Culture	None	\$40.00	M-F	7	DBL/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
West nile virus							
IgM ELISA	Serum	Ice pack	\$18.00	M,Th	2	DVL/EO	Two ml minimum
PCR	Brain	Dry ice	\$56.00	M-F	2	DVL/EO	Multiplex procedure detects WNV, EEE, and WEE. May ship sample refrigerated overnight
PRNT	Serum	Ice pack	\$19.00	F	5	DVL/EO	Two ml minimum
VI	Brain	Dry ice	\$52.00	W,Th,F	14	DVL/EO	(See equine encephalomyelitis) PCR preferred for WNV detection
VN	Serum	Ice pack	\$14.00	F	4	DVL/EO	Two ml minimum. Contact laboratory to arrange. (515) 337-7551
Yersinia spp.							
IDENT	Culture	None	\$58.00	M-F	7	DBL/BI	Yersiniosis, not plague. Contact laboratory for plague (515) 337-7565
ISOLATION	Various	Ice pack	\$40.00	M-F	7	DBL/BI	

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Yersinia spp.							
WBLOT	Serum	Ice pack	\$33.00	Varies	4	DBL/SERO	Yersinia enterocolitica, 2 ml minimum. Contact Laboratory for schedule (515) 337-7563

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