

## Diagnostic Testing

### National Veterinary Services Laboratories - Ames, Iowa

Procedure	Specimens	Shipping Preservative	2009 User Fee	On Test Days	Min. Test Time (Days)	Testing Lab	Comments
<b>Actinobacillus pleuropneumoniae</b>							
IDENT	Culture	None	\$92.00	M-F	10	DBL/BI	
ISOLATION	Tissue	Ice pack	\$37.00	M-F	10	DBL/BI	
<b>Adenovirus</b>							
IFA	Serum	Ice pack	\$15.00	M-F	3	DVL/BPA	Two ml minimum, bovine or porcine
VI	Tissue, swab	Ice pack	\$49.00	M-F	15	DVL/BPA	Bovine or porcine
<b>Aino**</b>							
VN	Serum	Ice pack	\$13.00	F	5	DVL/EO	Contact laboratory before shipment-- (515) 663-7551.
<b>Akabane**</b>							
VN	Serum	Ice pack	\$13.00	M, F	4	DVL/EO	Two ml minimum
<b>Anaplasmosis</b>							
CARD	Serum	Ice pack	\$4.00	M-F	1	DBL/SERO	Two ml minimum, Anaplasma marginale, cervidae
CELISA	Serum	Ice pack	\$17.00	M-F	1	DBL/SERO	Two ml minimum, Anaplasma marginale, cattle
CF	Serum	Ice pack	\$17.00	Tu, Th	1	DBL/SERO	Two ml minimum, Anaplasma marginale, cattle
MX	Blood	EDTA	\$29.00	M-F	1	PL/PCP	Send whole blood on wet ice
PCR	Whole blood	EDTA	\$104.00	M-F	2	DBL/SERO	Send whole blood on ice pack, EDTA required not heparin, one ml minimum
<b>Anthrax</b>							
IDENT	Culture	None	\$94.00	M-F	5	DBL/BI	Bacillus anthracis, contact laboratory for arrangements (515) 663-7565

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<b>Anthrax</b>							
ISOLATION	Blood	Clotted	\$94.00	M-F	5	DBL/BI	Contact laboratory for arrangements (515)663-7565
ISOLATION	Food	None	\$94.00	M-F	5	DBL/BI	Contact laboratory for arrangements (515) 663-7565
<b>Aquaculture-related bacterial diseases</b>							
Various	Various	Various	\$104.00	Call	10	DBL/BI	Contact laboratory for arrangements-- (515) 663-7565.
<b>Aquaculture-related viral diseases</b>							
Various	Various	Various	\$104.00	Call		DVL/BPA	Contact laboratory for arrangements and pricing--(515) 663-7551.
<b>Avian adenovirus</b>							
VI	Tissue, swab	Dry ice	\$49.00	M-F	15	DVL/AV	Chicken embryo lethal orphan
<b>Avian adenovirus 127</b>							
HI	Serum	Ice pack	\$15.00	M-F	1	DVL/AV	One ml minimum. Egg drop syndrome 76
VI	Tissue, swab	Dry ice	\$49.00	M-F	15	DVL/AV	
<b>Avian adenovirus group 1</b>							
AGID	Serum	Ice pack	\$17.00	M-F	1	DVL/AV	One ml minimum
<b>Avian adenovirus group 2</b>							
AGID	Serum	Ice pack	\$17.00	M-F	1	DVL/AV	One ml minimum. Hemorrhagic enteritis virus of turkeys, marble spleen disease of pheasants
<b>Avian encephalomyelitis</b>							
AGID	Serum	Ice pack	\$17.00	M-F	1	DVL/AV	One ml minimum
VI	Tissue	Dry ice	\$49.00	M-F	20	DVL/AV	

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<b>Avian herpesvirus</b>							
IFA	Serum	Ice pack	\$15.00	M-F	1	DVL/AV	One ml minimum (Infectious laryngotracheitis virus)
VI	Tissue	Dry ice	\$49.00	M-F	15	DVL/AV	
<b>Avian infectious bronchitis</b>							
HI	Serum	Ice pack	\$15.00	M-F	2	DVL/AV	Two ml minimum. Four strains (JMK, Mass, Ark, and Conn); user fee is per strain.
VI	Tissue, swab	Dry ice	\$49.00	M-F	20	DVL/AV	
<b>Avian influenza**</b>							
AGID	Serum	Ice pack	\$17.00	M-F	1	DVL/AV	Two ml minimum. Fowl plague
HI / NI	Serum	Ice pack	\$15.00	M-F	1	DVL/AV	Two ml minimum, includes HI and NI tests. Fifteen H subtypes available, user fee is per H subtype.
RRT-PCR	Swab	Dry ice	\$52.00	M-F	1	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	\$49.00	M-F	5	DVL/AV	
<b>Avian metapneumovirus</b>							
ELISA	Serum	Ice pack	\$17.00	M-F	1	DVL/AV	One ml minimum. Subgroup A (UK strain), subgroup B (Hungarian strain) and US-Colorado strain, Colorado avian pneumovirus.
IFA	Serum	Ice pack	\$15.00	M-F	1	DVL/AV	One ml minimum.
VI/PCR	Tissue	Dry ice	\$52.00	M-F	15	DVL/AV	
<b>Avian nephritis</b>							
IFA	Serum	Ice pack	\$15.00	M-F	1	DVL/AV	One ml minimum

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<b>Avian nephritis</b>							
VI	Tissue	Dry ice	\$49.00	M-F	15	DVL/AV	
<b>Avian paramyxovirus type 1**</b>							
HI	Serum	Ice pack	\$15.00	M-F	1	DVL/AV	Two ml minimum. Paramyxovirus type 1
RRT-PCR	Swab	Dry ice	\$52.00	M-F	1	DVL/AV	
VI	Hatching eggs	Ice pack	\$49.00	M-F	5	DVL/AV	Do not freeze.
VI	Tissue, swab	Dry ice	\$49.00	M-F	5	DVL/AV	
<b>Avian paramyxovirus types 2-9</b>							
HI	Serum	Ice pack	\$15.00	M-F	1	DVL/AV	One ml minimum
VI	Tissue, swab	Dry ice	\$49.00	M-F	5	DVL/AV	
<b>Avian reovirus</b>							
IFA	Serum	Ice pack	\$15.00	M-F	1	DVL/AV	One ml minimum. Fahey-Crawley, infectious synovitis, viral arthritis
VI	Tissue	Dry ice	\$49.00	M-F	15	DVL/AV	
<b>Avian rotavirus</b>							
EM	Tissue	Dry ice	\$52.00	M-F	5	DVL/AV	
<b>Avian safety test</b>							
CI	Varies	Dry ice	\$4,090.00	M-F	30	DVL/AV	
<b>Bacterial identification</b>							
IDENT	Culture	None	\$92.00	M-F	10	DBL/BI	Non-automated
IDENT	Culture	None	\$54.00	M-F	10	DBL/BI	Automated
<b>Bacterial isolation</b>							
ISOLATION	Various	Various	\$37.00	M-F	10	DBL/BI	

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<b>Blood smears</b>							
MX	Blood	EDTA	\$29.00	M-F	1	PL/PCP	Giemsa-stained for Anaplasma, Babesia, and trypanosomes
<b>Bluetongue</b>							
AGID	Serum	Ice pack	\$17.00	M, W	2	DVL/EO	Two ml minimum
CELISA	Serum	Ice pack	\$17.00	M, W, F	1	DVL/EO	Two ml minimum
CF	Serum	Ice pack	\$17.00	Tu, Th	2	DVL/EO	Two ml minimum
PCR	Blood, spleen	Ice pack	\$52.00	Varies	3	DVL/EO	Four ml minimum, collect whole blood in EDTA or heparin; do not freeze blood, refrigerate
VI	Blood, spleen	Ice pack	\$49.00	W,Th,F	35	DVL/EO	Heparinized or EDTA blood, tissue, spleen, washed RBCs; do not freeze blood, refrigerate
VI	Semen	Dry ice	\$49.00	W,Th,F	14	DVL/EO	Keep frozen; test 0.5 ml non-extended semen or equivalent
VN	Serum	Ice pack	\$13.00	Tu, F	5	DVL/EO	Two ml minimum. Five serotypes, user fee is per serotype
<b>Botulism</b>							
IDENT	Various	Various	\$123.00	M-F	10	DBL/BI	Clostridium botulinum, toxin typing, must be kept frozen, contact laboratory for arrangements (515) 663-7565
ISOLATION	Various	Various	\$37.00	M-F	10	DBL/BI	Clostridium botulinum, contact laboratory for arrangements (515)663-7565
<b>Bovine enterovirus</b>							
VI	Tissue	Ice pack	\$49.00	M-F	25	DVL/BPA	BEV
<b>Bovine herpesvirus 1</b>							
VI	Semen	Dry ice, LN2	\$49.00	M-F	15	DVL/BPA	Must be kept frozen
VI	Tissue, blood	Ice pack	\$49.00	M-F	15	DVL/BPA	
VN	Serum	Ice pack	\$13.00	F	4	DVL/BPA	Two ml minimum

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<b>Bovine herpesvirus 2</b>							
VI	Tissue	Ice pack	\$49.00	M-F	15	DVL/BPA	
VN	Serum	Ice pack	\$13.00	M-F	5	DVL/BPA	Two ml minimum
<b>Bovine herpesvirus 4</b>							
IFA	Serum	Ice pack	\$15.00	M-F	3	DVL/BPA	Two ml minimum. DN599, MOVAR, bovine cytomegalovirus
VI	Tissue	Ice pack	\$49.00	M-F	15	DVL/BPA	
<b>Bovine leukosis</b>							
AGID	Serum	Ice pack	\$17.00	M-F	2	DVL/EO	Two ml minimum
ELISA	Serum	Ice pack	\$17.00	M, W, F	1	DVL/EO	Two ml minimum
<b>Bovine papular stomatitis</b>							
IFA	Serum	Ice pack	\$15.00	M-F	3	DVL/BPA	Two ml minimum
VI	Tissue	Ice pack	\$49.00	M-F	15	DVL/BPA	
<b>Bovine parvovirus</b>							
IFA	Serum	Ice pack	\$15.00	M-F	3	DVL/BPA	Two ml minimum
VI	Tissue	Ice pack	\$49.00	M-F	15	DVL/BPA	
<b>Bovine respiratory syncytial virus</b>							
VI	Tissue, swab	Ice pack	\$49.00	M-F	15	DVL/BPA	Special transport medium recommended. Contact laboratory (515) 663-7551.
VN	Serum	Ice pack	\$13.00	Th	6	DVL/BPA	Two ml minimum
<b>Bovine spongiform encephalopathy</b>							
HISTO	Block/brain stem	None	\$0.00	M-F	2	PL/PS	Formalin fixed - paraffin-embedded tissue blocks
HISTO	Fixed tissue/brain stem	Formalin	\$0.00	M-F	8	PL/PS	Brain stem essential for all submissions

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<b>Bovine spongiform encephalopathy</b>							
HISTO	Slide/brain stem	None	\$0.00	M-F	1	PL/PS	Slide stained with hematoxylin and eosin
IHC	Block/brain stem	None	\$0.00	M-F	3	PL/PS	Formalin fixed - paraffin-embedded tissue blocks
IHC	Fixed tissue/brain stem	Formalin	\$0.00	M-F	8	PL/PS	Brain stem essential for all submissions
IHC	Slide/brain stem	None	\$0.00	M-F	1	PL/PS	Contact laboratory (515) 663-7521
<b>Bovine viral diarrhea</b>							
PCR	Virus isolate	Ice pack	\$52.00	M-F	3	DVL/BPA	Mucosal disease--differential for types I and II, sample required is a viral isolate
VI	Various	Ice pack	\$49.00	M-F	25	DVL/BPA	Tissue, swab, blood, or serum (DO NOT FREEZE WHOLE BLOOD)
VN	Serum	Ice pack	\$13.00	Th	4	DVL/BPA	Two ml minimum. Types I and II, user fee is per type
<b>Brucella abortus</b>							
8% CARD	Serum	Ice pack	\$4.00	M-F	1	DBL/SERO	Two ml minimum, bovine and porcine
BAPA	Serum	Ice pack	\$7.25	M-F	1	DBL/SERO	Bang's disease, two ml minimum
BRT	Milk	Ice pack	\$37.00	M-F	3	DBL/MB	Two ml minimum
CF COLD	Serum	Ice pack	\$17.00	M-Th	2	DBL/SERO	Two ml minimum
CF WARM	Serum	Ice pack	\$17.00	M-F	1	DBL/SERO	Two ml minimum
ELISA	Serum	Ice pack	\$17.00	M-F	1	DBL/SERO	Two ml minimum
FPA	Serum	Ice pack	\$26.00	M-F	1	DBL/SERO	Two ml minimum
HIRT	Milk	Ice pack	\$37.00	M-F	3	DBL/MB	Five ml minimum
PCFIA	Serum	Ice pack	\$37.00	M-F	1	DBL/SERO	Two ml minimum
PLATE,SPT	Serum	Ice pack	\$7.25	M-F	1	DBL/SERO	Two ml minimum

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<b>Brucella abortus</b>							
RAP	Serum	Ice pack	\$7.00	M-F	1	DBL/SERO	Two ml minimum
RIVANOL	Serum	Ice pack	\$7.25	M-F	1	DBL/SERO	Two ml minimum
TUBE	Semen	Ice pack	\$7.25	M-W	3	DBL/SERO	Two ml minimum
TUBE,STT	Serum	Ice pack	\$7.25	M-W	3	DBL/SERO	Two ml minimum
WBLOT	Serum	Ice pack	\$31.00	T,W,Th	2	DBL/SERO	Two ml minimum
<b>Brucella canis</b>							
ELISA	Serum	Ice pack	\$17.00	M-F	1	DBL/SERO	Two ml minimum
ME TUBE	Serum	Ice pack	\$7.25	M-W	3	DBL/SERO	Two ml minimum
<b>Brucella melitensis</b>							
3 % CARD	Serum	Ice pack	\$4.00	M-F	1	DBL/SERO	Two ml minimum
<b>Brucella ovis</b>							
CF	Serum	Ice pack	\$17.00	M-F	1	DBL/SERO	Two ml minimum
ELISA	Serum	Ice pack	\$17.00	M-F	1	DBL/SERO	Two ml minimum
<b>Brucellosis</b>							
IDENT	Culture	None	\$92.00	M-F	7	DBL/MB	
ISOLATION	Various	Dry ice	\$37.00	M-F	10	DBL/MB	Tissue, milk, semen, etc.
PCR	Culture	None	\$94.00	M-F	1	DBL/MB	
TYPING	Culture	None	\$43.00	M-F	5	DBL/MB	Phage typing
<b>Cache Valley</b>							
VN	Serum	Ice pack	\$13.00	M, F	4	DVL/EO	Two ml minimum
<b>Calicivirus</b>							
VI	Tissue	Ice pack	\$49.00	M-F	25	DVL/BPA	San Miguel sea lion virus
VN	Serum	Ice pack	\$13.00	M-F	5	DVL/BPA	Nine serotypes, user fee is per serotype.
<b>Campylobacteriosis</b>							
IDENT	Culture	None	\$54.00	M-F	10	DBL/BI	Automated

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<b>Campylobacteriosis</b>							
IDENT	Culture	None	\$92.00	M-F	20	DBL/BI	
ISOLATION	Tissue	Ice pack	\$37.00	M-F	10	DBL/BI	
<b>Caprine arthritis encephalitis</b>							
AGID	Serum	Ice pack	\$17.00	M, W	2	DVL/EO	Two ml minimum
ELISA	Serum	Ice pack	\$17.00	M, W	2	DVL/EO	
<b>Carbonate/silicate disinfectants</b>							
TITRATION	Disinfectant	None	\$67.00	M-F	2	PL/CAS	
<b>Chicken anemia virus</b>							
IFA	Serum	Ice pack	\$15.00	M-F	1	DVL/AV	One ml minimum
<b>Chlamydia psittaci</b>							
CF	Serum	Ice pack	\$17.00	F	1	DVL/EO	Two ml minimum, ornithosis, parrot fever, enzootic ovine abortion
ISOLATION	Various	Ice pack	\$49.00	Tu, F	14	DVL/AV	Tissue, swab, and feces. Do not freeze specimens for isolation.
<b>Chronic wasting disease</b>							
HISTO	Block/brain stem	None	\$0.00	M-F	2	PL/PS	Formalin fixed - paraffin-embedded tissue blocks
HISTO	Fixed tissue/brain stem	Formalin	\$0.00	M-F	8	PL/PS	Brain stem is essential for all submissions
HISTO	Slide/brain stem	None	\$0.00	M-F	1	PL/PS	Slide stained with hematoxylin and eosin
IHC	Block tissues	None	\$0.00	M-F	3	PL/PS	Formalin fixed - paraffin-embedded tissue blocks. Whenever possible retropharyngeal lymph node and tonsil should also be submitted.

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<b>Chronic wasting disease</b>							
IHC	Fixed tissue/brain stem	Formalin	\$0.00	M-F	8	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	1	PL/PS	Contact laboratory (515) 663-7521
<b>Clostridium chauvoei</b>							
IDENT	Culture	None	\$92.00	M-F	10	DBL/BI	Blackleg
ISOLATION	Tissue	Ice pack	\$37.00	M-F	10	DBL/BI	
<b>Clostridium perfringens</b>							
IDENT	Int'l contents	Ice pack	\$123.00	M-F	10	DBL/BI	Toxin typing, must be kept frozen
ISOLATION	Tissue	Ice pack	\$37.00	M-F	10	DBL/BI	Enterotoxemia
<b>Coccidia</b>							
IDENT	Feces	Fresh/form	\$0.00	M-F	1	PL/PCP	Identification of coccidia in fecal sample
<b>Contagious ecthyma</b>							
CF	Serum	Ice pack	\$17.00	Tu, Th	2	DVL/EO	Two ml minimum, orf, contagious pustular dermatitis
EM	Lesion	Ice pack	\$52.00	Varies	2	DVL/EO	Lesions suggestive of FMD must be submitted to FADDL.
<b>Contagious equine metritis</b>							
CF	Serum	Ice pack	\$17.00	M-Th	2	DBL/SERO	Two ml minimum, Taylorella equigenitalis
ISO & ID	Swab, culture	Ice pack	\$94.00	M-F	7	DBL/BI	Taylorella equigenitalis. Swab must be received refrigerated within 48 hrs of collection, in Amies transport medium + charcoal.
<b>Coronavirus</b>							
IFA	Serum	Ice pack	\$15.00	M-F	3	DVL/BPA	Bovine only
VI	Tissue, feces	Ice pack	\$49.00	M-F	15	DVL/BPA	Bovine or porcine

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<b>Coronavirus</b>							
VN	Serum	Ice pack	\$13.00	M-F	4	DVL/BPA	Two ml minimum TGE only
<b>Corynebacterium</b>							
IDENT	Culture	None	\$54.00	M-F	10	DBL/BI	Automated
IDENT	Culture	None	\$92.00	M-F	10	DBL/BI	
ISOLATION	Tissue	Ice pack	\$37.00	M-F	10	DBL/BI	
<b>Coryza, infectious</b>							
IDENT	Culture	None	\$92.00	M-F	20	DBL/BI	Haemophilus paragallinarum
IDENT	Culture	None	\$54.00	M-F	10	DBL/BI	Automated
ISOLATION	Tissue, swab	Ice pack	\$37.00	M-F	20	DBL/BI	
<b>Coryza, turkey</b>							
IDENT	Culture	None	\$54.00	M-F	10	DBL/BI	Automated
IDENT	Culture	None	\$92.00	M-F	10	DBL/BI	Bordetella avium
ISOLATION	Tissue, swab	Ice pack	\$37.00	M-F	10	DBL/BI	
<b>Cysticercosis</b>							
IDENT	Tissue	Formalin	\$0.00	M-F	2	PL/PCP	
<b>Dourine</b>							
AGID	Serum	Ice pack	\$17.00	M-F	2	DBL/SERO	Two ml minimum, Trypanosoma equiperdum
CF	Serum	Ice pack	\$17.00	M-F	1	DBL/SERO	Two ml minimum, Trypanosoma equiperdum
MX	Blood	EDTA	\$29.00	M-F	1	PL/PCP	
<b>Duck viral enteritis</b>							
IFA	Serum	Ice pack	\$15.00	M-F	1	DVL/AV	Two ml minimum
VI	Tissue	Dry ice	\$49.00	M-F	15	DVL/AV	

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<b>Duck viral enteritis</b>							
VN	Serum	Ice pack	\$13.00	M-F	10	DVL/AV	Two ml minimum
<b>Electron microscopy</b>							
EM	Various	Dry ice	\$52.00	M-F	2	DVL/EO	Tissue culture isolates, intestinal contents, lesions
<b>Elemental analysis</b>							
ICP	Various	Ice pack	\$45.00	M-Th	3	PL/CAS	Screen - serum, blood, urine (two ml minimum); tissue, feed, and water
ICP	Various	Ice pack	\$13.00	M-Th	3	PL/CAS	Single element - serum, blood, urine (two ml minimum); tissue, feed, and water
<b>Encephalomyocarditis</b>							
VI	Tissue	Ice pack	\$49.00	M-F	15	DVL/BPA	Heart, lung, liver, or kidney
VN	Various	Ice pack	\$13.00	M-F	3	DVL/BPA	Two ml minimum--serum
<b>Eperythrozoonosis</b>							
MX	Blood	EDTA	\$29.00	M-F	3	PL/PCP	
<b>Epizootic hemorrhagic disease</b>							
AGID	Serum	Ice pack	\$17.00	M, W	2	DVL/EO	Two ml minimum
PCR	Blood, spleen	Ice pack	\$52.00	Varies	3	DVL/EO	Do not freeze, refrigerate whole blood collected in EDTA or heparin.
VI	Blood, spleen	Ice pack	\$49.00	W, Th	24	DVL/EO	Whole blood collected in EDTA or heparin. Do not freeze. Ship refrigerated overnight
VI	Semen	Dry ice	\$49.00	W, Th	24	DVL/EO	Keep frozen; test 0.5 ml non-extended semen or equivalent
VN	Serum	Ice pack	\$13.00	Tu, F	5	DVL/EO	Two ml minimum, type 1, 2. User fee is per serotype.

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<b>Equine adenovirus</b>							
VI	Nasal swabs, tracheal wash	Dry ice	\$49.00	Varies	14	DVL/EO	
VN	Serum	Ice pack	\$13.00	M, F	4	DVL/EO	Two ml minimum, equine
<b>Equine encephalomyelitis</b>							
CF	Serum	Ice pack	\$17.00	W	2	DVL/EO	Two ml minimum, user fee is per strain
HI	Serum	Ice pack	\$15.00	W	2	DVL/EO	Two ml minimum, user fee is per strain
IgM ELISA	Serum	Ice pack	\$17.00	M,Th	2	DVL/EO	Two ml minimum, user fee is per strain
PCR	Brain	Dry ice	\$52.00	Varies	3	DVL/EO	Multiplex procedure detects EEE, WEE, and WNV. May ship refrigerated overnight.
PRNT	Serum	Ice pack	\$18.00	Tu	4	DVL/EO	Two ml minimum, Eastern, Western, and Venezuelan, user fee is per strain
VI	Brain, CSF, whole blood	Dry ice	\$49.00	Varies	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.
VN	Serum	Ice pack	\$13.00	Tu	4	DVL/EO	Two ml minimum, Eastern, Western, and Venezuelan, user fee is per strain
<b>Equine herpesvirus 1</b>							
VI	Tissue, nasal swab, whole blood	Dry ice	\$49.00	Varies	14	DVL/EO	Ship whole blood refrigerated.
VN	Serum	Ice pack	\$13.00	M, F	4	DVL/EO	Two ml minimum

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Procedure	Specimens	Shipping Preservative	2009 User Fee	On Test Days	Min. Test Time (Days)	Testing Lab	Comments
<b>Equine herpesvirus 2</b>							
VI	Swabs, whole blood	Dry ice	\$49.00	Varies	14	DVL/EO	Cytomegalovirus
VN	Serum	Ice pack	\$13.00	M, F	7	DVL/EO	Two ml minimum
<b>Equine herpesvirus 3</b>							
VI	Lesions, swabs	Dry ice	\$49.00	Varies	14	DVL/EO	Coital exanthema
VN	Serum	Ice pack	\$13.00	M, F	4	DVL/EO	Two ml minimum
<b>Equine herpesvirus 4</b>							
VI	Tissue, swab, whole blood	Dry ice	\$49.00	Varies	14	DVL/EO	Ship whole blood refrigerated
VN	Serum	Ice pack	\$13.00	M, F	4	DVL/EO	Two ml minimum, does not differentiate between herpesvirus 1 and 4.
<b>Equine infectious anemia</b>							
AGID	Serum	Ice pack	\$17.00	M-F	2	DVL/EO	Two ml minimum, no charge for confirmation of positives
ELISA	Serum	Ice pack	\$17.00	M-F	1	DVL/EO	Two ml minimum
WBLOT	Serum	Ice pack	\$104.00	M-F	2	DVL/EO	Contact laboratory for details--(515) 663-7551.
<b>Equine influenza</b>							
HI	Serum	Ice pack	\$15.00	Th	2	DVL/EO	User fee is per antigen; three antigens are used for each HI.
VI	Tissue, nasal swab	Dry ice	\$49.00	W, Th	20	DVL/EO	A1 - H7N7, A2 - H3N8 (Extra time required for isolate identification)
<b>Equine rhinovirus</b>							
VI	Lung tissue, nasal swab	Dry ice	\$49.00	Varies	14	DVL/EO	Extra time required for isolate identification

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Procedure	Specimens	Shipping Preservative	2009 User Fee	On Test Days	Min. Test Time (Days)	Testing Lab	Comments
<b>Equine rhinovirus</b>							
VN	Serum	Ice Pack	\$13.00	M, F	4	DVL/EO	Rhino 1 and 2 serotypes; user fee is per serotype
<b>Equine viral arteritis</b>							
VI	Semen	Dry ice	\$49.00	Varies	14	DVL/EO	Ten ml minimum. Special requirements for export testing, contact laboratory for details--(515) 663-7551.
VI	Tissue, swab, whole blood	Dry ice	\$49.00	Varies	14	DVL/EO	Ship whole blood refrigerated
VN	Serum	Ice pack	\$13.00	M, F	4	DVL/EO	Two ml minimum
<b>Erysipelas</b>							
IDENT	Culture	None	\$92.00	M-F	10	DBL/BI	Erysipelothrix rhusiopathiae
IDENT	Culture	None	\$54.00	M-F	10	DBL/BI	Automated
ISOLATION	Tissue	Ice pack	\$37.00	M-F	10	DBL/BI	
<b>External parasites</b>							
IDENT	Parasite	EtOH, IPA	\$0.00	M-F	1	PL/PCP	Fleas, lice, mange, mites, myiasis, scabies, screwworms, ticks
<b>Fetal bovine serum safety test</b>							
SI	Serum	Dry ice	\$1,122.00	F	35	DVL/EO	Contact State or Federal veterinarian for special requirements for testing before submitting serum.
<b>Fluke</b>							
IDENT	Parasite	EtOH, IPA	\$0.00	M-F	1	PL/PCP	Species identification
<b>Formaldehyde</b>							
COLOR	Biologicals	Ice pack	\$33.00	Tu	5	PL/CAS	
<b>Fowl cholera</b>							
DNA FP	Culture	None	\$61.00	M-F	14	DBL/BI	
GDPT	Culture	None	\$19.00	W-F	7	DBL/BI	Somatic antigen typing

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Procedure	Specimens	Shipping Preservative	2009 User Fee	On Test Days	Min. Test Time (Days)	Testing Lab	Comments
<b>Fowl cholera</b>							
IDENT	Culture	None	\$54.00	M-F	10	DBL/BI	Automated
IDENT	Culture	None	\$92.00	M-F	10	DBL/BI	
ISOLATION	Tissue	Ice pack	\$37.00	M-F	10	DBL/BI	Pasteurella multocida
<b>Fowl pox</b>							
IFA	Serum	Ice pack	\$15.00	M-F	1	DVL/AV	One ml minimum. Avian pox
VI	Tissue	Dry ice	\$49.00	M-F	15	DVL/AV	
<b>Getah**</b>							
VI	Blood	Heparin	\$49.00	Varies	14	DVL/EO	Do not freeze, refrigerate.
<b>Glanders</b>							
CF	Serum	Ice pack	\$17.00	M-F	1	DBL/SERO	Two ml minimum, Burkholderia mallei
ELISA	Serum	Ice pack	\$17.00	M, Th	1	DBL/SERO	Two ml minimum
IDENT	Culture	None	\$94.00	M-F	7	DBL/BI	(Burkholderia mallei) Contact laboratory for shipping instructions
ISOLATION	Various	Ice pack	\$94.00	M-F	7	DBL/BI	(Burkholderia mallei) Contact laboratory for shipping instructions
<b>Goose parvovirus**</b>							
IFA	Serum	Ice pack	\$15.00	M-F	1	DVL/AV	Goose hepatitis, Derzsy's disease
VI/PCR	Tissue	Dry ice	\$52.00	M-F	10	DVL/AV	
<b>Heartwater**</b>							
PCR	Blood (EDTA)	Ice pack	\$52.00	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	\$52.00	M-F	4	DVL/BPA	
<b>Hemagglutinating encephalomyelitis</b>							
HI	Serum	Ice pack	\$15.00	M-F	1	DVL/BPA	Two ml minimum
VI	Tissue	Ice pack	\$49.00	M-F	15	DVL/BPA	Lung or brain

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Procedure	Specimens	Shipping Preservative	2009 User Fee	On Test Days	Min. Test Time (Days)	Testing Lab	Comments
<b>Histopathology</b>							
HISTO	Fixed tissue	Formalin	\$104.00	M-F	2	PL/PS	
<b>Ibaraki**</b>							
VN	Serum	Ice pack	\$13.00	Varies	4	DVL/EO	Testing done only for FAD investigations and importation of animals from other countries
<b>Infectious bursal disease</b>							
AGID	Serum	Ice pack	\$17.00	M-F	1	DVL/AV	One ml minimum. Gumboro disease
VI	Tissue	Dry ice	\$49.00	M-F	15	DVL/AV	
<b>Infectious laryngotracheitis</b>							
IFA	Serum	Ice pack	\$15.00	M-F	1	DVL/AV	One ml minimum
VI	Tissue	Dry ice	\$49.00	M-F	10	DVL/AV	
<b>Internal parasites</b>							
FECX	Parasites	EtOH, IPA	\$29.00	M-F	1	PL/PCP	Coccidia, flukes, roundworms, and tapeworms
<b>Israel turkey meningoencephalitis**</b>							
HI	Serum	Ice pack	\$15.00	M-F	10	DVL/AV	One ml minimum
VI	Tissue	Dry ice	\$49.00	M-F	10	DVL/AV	
<b>Johne's disease</b>							
AGID	Serum	Ice pack	\$17.00	M-W	2	DBL/SERO	Two ml minimum
CF	Serum	Ice pack	\$17.00	W, F	1	DBL/SERO	Two ml minimum, Mycobacterium paratuberculosis
ELISA	Serum, milk	Ice pack	\$17.00	W, F	1	DBL/SERO	Two ml minimum
FECAL PCR	Feces	Ice pack	\$31.00	M-F	5	DBL/MB	Two gram minimum
IS1311	Culture, tissue	None	\$94.00	M-F	5	DBL/MB	IS1311 Sheep and cattle paratuberculosis strain differentiation

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Procedure	Specimens	Shipping Preservative	2009 User Fee	On Test Days	Min. Test Time (Days)	Testing Lab	Comments
<b>Johne's disease</b>							
ISO/IDENT	Tissue, feces, culture	Ice pack	\$74.00	M-F	120	DBL/MB	Bactec 460, Trek ESP, MGIT 960, HEY
<b>Klebsiella</b>							
IDENT	Culture	None	\$92.00	M-F	10	DBL/BI	Serotyping is not available
IDENT	Culture	None	\$54.00	M-F	10	DBL/BI	Automated
ISOLATION	Tissue	Ice pack	\$37.00	M-F	10	DBL/BI	
<b>Larvae</b>							
IDENT	Parasite	EtOH, IPA	\$0.00	M-F	1	PL/PCP	ID to species
<b>Leptospirosis</b>							
ISO	Kidney/liver fresh not frozen	Ice pack	\$104.00	M-F	30	DBL/BI	Contact laboratory before submitting (515) 663-7342
MAT	Serum	Ice pack	\$24.00	W	5	DBL/BI	Samples must be received by 11:00 am on Wednesday for testing; additional charge for more than 5 serovars.
PCR	Tissue/urine	Ice pack	\$104.00	M-F	7	DBL/BI	
<b>Lice</b>							
IDENT	Parasite	EtOH, IPA	\$0.00	M-F	1	PL/PCP	ID to species
<b>Listeriosis</b>							
IDENT	Culture	None	\$54.00	M-F	10	DBL/BI	Automated
IDENT	Culture	None	\$92.00	M-F	10	DBL/BI	Listeria spp.
ISOLATION	Tissue	Ice pack	\$37.00	M-F	42	DBL/BI	
<b>Maggots</b>							
IDENT	Parasite	EtOH, IPA	\$0.00	M-F	1	PL/PCP	ID to species

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Procedure	Specimens	Shipping Preservative	2009 User Fee	On Test Days	Min. Test Time (Days)	Testing Lab	Comments
<b>Malignant catarrhal fever</b>							
IPT	Serum	Ice pack	\$16.00	Th	1	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	\$104.00	M-F	3	DVL/BPA	Differentiates between alcelaphine herpesvirus 1 and ovine herpesvirus 2
PCR	Tissue	Ice pack	\$104.00	M-F	3	DVL/BPA	Differentiates between alcelaphine herpesvirus 1 and ovine herpesvirus 2
VN	Serum	Ice pack	\$13.00	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)
<b>Mange</b>							
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
<b>Marek's disease</b>							
AGID	Serum	Ice pack	\$17.00	M-F	1	DVL/AV	One ml minimum
<b>Melioidosis</b>							
IDENT	Culture	None	\$94.00	M-F	7	DVL/BI	(Burkholderia pseudomallei) Contact laboratory for shipping instructions
ISOLATION	Various	Ice pack	\$94.00	M-F	7	DBL/BI	(Burkholderia pseudomallei) Contact laboratory for shipping instructions
<b>Microscopy</b>							
MICRO	Feed, plant	None	\$33.00	M-F	3	PL/CAS	
MICRO	Rumen contents	Ice pack	\$33.00	M-F	10	PL/CAS	

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Procedure	Specimens	Shipping Preservative	2009 User Fee	On Test Days	Min. Test Time (Days)	Testing Lab	Comments
<b>Mites</b>							
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
<b>Moisture</b>							
GRAVI	Biologicals	Ice pack	\$112.00	M-W	5	PL/CAS	
<b>Muscovy duck parvovirus</b>							
IFA	Serum	Ice pack	\$15.00	M-F	1	DVL/AV	
VI/PCR	Tissue	Dry ice	\$52.00	M-F	10	DVL/AV	
<b>Mycobacterium</b>							
AFS	Fluid, culture	Various	\$26.00	M-F	1	DBL/MB	Direct acid fast stain on clinical specimens
ASC	Culture	None	\$107.00	Call	7	DBL/MB	Mycobacterium tuberculosis complex, antibiotic sensitivity test performed on M. tuberculosis complex only, contact laboratory at (515)663-7388 for test schedule
BIOCHEM	Culture	None	\$117.00	M-F	30	DBL/MB	Identification of acid fast bacteria includes biochemical analysis and 16s rDNA sequencing analysis
DNA PROBE	Culture	Various	\$85.00	M-F	1	DBL/MB	DNA probe
GAMMA INF	Heparinized blood	Ice pack	\$104.00	T,W,Th	2	DBL/SERO	Bovine, primate, and cervid samples must arrive within 24 hours of sample collection. Do not freeze samples. Six ml minimum
HISTO	Block containing lesion	None	\$104.00	M-F	1	PL/PS	Formalin fixed - paraffin-embedded tissue blocks
HISTO	Fixed tissue containing lesion	Formalin	\$104.00	M-F	2	PL/PS	Tissues should not be decalcified

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Procedure	Specimens	Shipping Preservative	2009 User Fee	On Test Days	Min. Test Time (Days)	Testing Lab	Comments
<b>Mycobacterium</b>							
ISOLATION	Tissue, swabs, washes	Various	\$37.00	M-F	60	DBL/MB	Contact laboratory at (515) 663-7388 for details. Shipping preservative - ice pack or Na Borate
PCR	Block containing lesion	None	\$104.00	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	\$104.00	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.
TRUNKW	Fluid	Ice pack	\$94.00	M-F	60	DBL/MB	Elephant trunk washings - See Guide for the control of tuberculosis in elephants. 2003. Available at <a href="http://www.elephantcare.org">www.elephantcare.org</a>
<b>Mycoplasma</b>							
HI	Serum	Ice pack	\$15.00	M-F	5	DBL/BI	Two ml minimum, Mycoplasma gallisepticum, M. meleagridis, and M. synoviae
PLATE	Serum	Ice pack	\$7.25	M-F	5	DBL/BI	Two ml minimum, Mycoplasma gallisepticum, M. meleagridis, and M. synoviae
<b>Myiasis</b>							
IDENT	Parasite	EtOH, IPA	\$0.00	M-F	1	PL/PCP	ID of fly larvae to species
<b>Nitrate/nitrite</b>							
ELECTRODE	Various	None	\$67.00	M-F	14	PL/CAS	Forage, feed, water
HPLC	Serum, fluid	Ice pack	\$67.00	M-F	14	PL/CAS	Two ml minimum--serum and ocular fluid
<b>Organic screen</b>							
GC/MS	Feed, extract, tissue	Ice pack	\$90.00	M-F	10	PL/CAS	Confirmation of a suspected compound

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Procedure	Specimens	Shipping Preservative	2009 User Fee	On Test Days	Min. Test Time (Days)	Testing Lab	Comments
<b>Organic screen</b>							
GC/MS	Feed, extract, tissue	Ice pack	\$155.00	M-F	10	PL/CAS	Screen
<b>Ornithobacterium rhinotracheale</b>							
IDENT	Culture	None	\$54.00	M-F	10	DBL/BI	Automated
IDENT	Culture	None	\$92.00	M-F	10	DBL/BI	ORT
ISOLATION	Various	Various	\$37.00	M-F	15	DBL/BI	
<b>Ovine progressive pneumonia</b>							
AGID	Serum	Ice pack	\$17.00	M-F	2	DVL/EO	Two ml minimum. Maedi-Visna
<b>Parainfluenza-3</b>							
VI	Tissue, swab	Ice pack	\$49.00	M-F	15	DVL/BPA	Nasal swab. Shipping fever, virus pneumonia
VN	Serum	Ice pack	\$13.00	Th	4	DVL/BPA	
<b>Parasites</b>							
IDENT	Parasite	EtOH, IPA	\$0.00	M-F	1	PL/PCP	ID to species
<b>Paratyphoid</b>							
TUBE	Serum	Ice pack	\$7.25	M-Th	2	DBL/SERO	Two ml minimum, Salmonella abortus-equi, equidae
<b>Piroplasmosis, bovine</b>							
CF	Serum	Ice pack	\$17.00	Tu, Th	1	DBL/SERO	Two ml minimum. Babesia bovis and B. bigemina, user fee is per species.
IFA	Serum	Ice pack	\$15.00	M-F	1	DBL/SERO	Two ml minimum. Babesia bovis and B. bigemina, user fee is per species.
MX	Blood, smear	EDTA	\$29.00	M-F	1	PL/PCP	
PCR	Blood	EDTA	\$104.00	M-F	2	DBL/SERO	EDTA required, not heparin 1 ml minimum

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Procedure	Specimens	Shipping Preservative	2009 User Fee	On Test Days	Min. Test Time (Days)	Testing Lab	Comments
<b>Piroplasmosis, equine</b>							
CELISA	Serum	Ice pack	\$17.00	M-F	1	DBL/SERO	Two ml minimum. Babesia caballi and B. equi, user fee is per species.
CF	Serum	Ice pack	\$17.00	M-F	1	DBL/SERO	Two ml minimum. Babesia caballi and B. equi, user fee is per species.
IFA	Serum	Ice pack	\$15.00	M-F	1	DBL/SERO	Two ml minimum. Babesia caballi and B. equi, user fee is per species.
MX	Blood, smear	EDTA	\$29.00	M-F	1	PL/PCP	
PCR	Blood	EDTA	\$104.00	M-F	2	DBL/SERO	EDTA required, not heparin 1 ml minimum
<b>Porcine enterovirus A</b>							
IFA	Serum	Ice pack	\$15.00	M-F	3	DVL/BPA	Formerly PEV 8
VI	Tissue	Ice pack	\$49.00	M-F	25	DVL/BPA	Formerly PEV 8
<b>Porcine epidemic diarrhea**</b>							
PCR	Feces, tissue	Ice pack	\$52.00	M-F	4	DVL/BPA	Testing done only for FAD investigations.
<b>Porcine parvovirus</b>							
HI	Various	Ice pack	\$15.00	M-F	1	DVL/BPA	Serum or fetal fluid--two ml minimum
VI	Tissue	Ice pack	\$49.00	M-F	15	DVL/BPA	
<b>Porcine reproductive and respiratory syndrome</b>							
ELISA	Serum	Ice pack	\$17.00	M-F	1	DVL/BPA	PRRS
IFA	Serum	Ice pack	\$15.00	M-F	1	DVL/BPA	US vs. European differentiation, two user fee charges per serum
VI	Tissue, serum	Ice pack	\$49.00	M-F	25	DVL/BPA	Two user fee charges if isolation on MARC-145 and SAM cell cultures.
<b>Porcine Rubulavirus**</b>							
HI	Serum	Ice pack	\$15.00	M-F	2	DVL/BPA	a/k/a Blue eye paramyxovirus, Two ml minimum, porcine BEP

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<b>Porcine Rubulavirus**</b>							
VI	Tissue, swab	Ice pack	\$49.00	M-F	21	DVL/BPA	a/k/a Blue eye paramyxovirus
<b>Porcine teschovirus</b>							
IFA	Serum	Ice pack	\$15.00	M-F	3	DVL/BPA	7 groups, user fee is per group, (formerly PEV 1-7)
PCR	Viral isolate	Ice pack	\$52.00	M-F	3	DVL/BPA	For detection of PTV1, formerly PEV1 & Teschan
VI	Tissue	Ice pack	\$49.00	M-F	25	DVL/BPA	SMEDI (Stillbirth, mummification, embryonic death & infertility), formerly PEV 1-7 & porcine poliоencephalomyelitis, if suspect Teschan disease (PTV1) contact state of federal vet before shipment
VN	Viral isolate	Ice pack	\$13.00	Th-F	10	DVL/BPA	Differentiation of PTV 1-7 only (user fee is per group). If viral isolate is other than PTV 1-7, virus isolation charges may apply (formerly PEV 1-7)
<b>Potomac horse fever</b>							
IFA	Serum	Ice pack	\$15.00	W, Th	2	DVL/EO	Two ml minimum, Ehrlichia risticii
<b>Pox</b>							
EM	Tissue	Ice pack	\$52.00	M-F	1	DVL/BPA	ID virus in lesion
VI	Tissue	Ice pack	\$49.00	M-F	21	DVL/BPA	
<b>Protein</b>							
BIURET	Various	Ice pack	\$33.00	W	5	PL/CAS	
KJELDAHL	Various	Ice pack	\$112.00	M-W	3	PL/CAS	
<b>Pseudocowpox</b>							
IFA	Serum	Ice pack	\$15.00	M-F	3	DVL/BPA	Two ml minimum
VI	Tissue	Ice pack	\$49.00	M-F	21	DVL/BPA	

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Procedure	Specimens	Shipping Preservative	2009 User Fee	On Test Days	Min. Test Time (Days)	Testing Lab	Comments
<b>Pseudomonas</b>							
IDENT	Culture	None	\$54.00	M-F	10	DBL/BI	Automated
IDENT	Culture	None	\$92.00	M-F	10	DBL/BI	
ISOLATION	Tissue	Ice pack	\$37.00	M-F	10	DBL/BI	
<b>Pseudorabies</b>							
ELISA	Serum	Ice pack	\$17.00	M-F	1	DVL/BPA	Two ml minimum. Screening or differential for g1. Aujeszky's disease, infectious bulbar paralysis, mad itch
FATST	Tissue	Ice pack	\$30.00	M-F	1	DVL/BPA	
LAT	Serum	Ice pack	\$17.00	M-F	1	DVL/BPA	Two ml minimum
PCR	Tissue	Ice pack	\$52.00	M-F	5	DVL/BPA	Trigeminal ganglion, contact laboratory before submitting--(515) 663-7551.
VI	Tissue	Ice pack	\$49.00	M-F	15	DVL/BPA	
VN	Serum	Ice pack	\$13.00	M-F	3	DVL/BPA	Two ml minimum
<b>Psittacine herpesvirus</b>							
IFA	Serum	Ice pack	\$15.00	M-F	1	DVL/AV	One ml minimum
VI	Swab	Dry ice	\$49.00	M-F	10	DVL/AV	
<b>Pullorum-typhoid</b>							
AGGL	Serum	Ice pack	\$7.25	M-Th	2	DBL/BI	
ISOLATION	Tissue	Ice pack	\$37.00	M-F	10	DBL/BI	Pullorum disease will be reported to the State Veterinarian and NPIP Staff Veterinarian
<b>Q-fever</b>							
CF	Serum	Ice pack	\$17.00	Tu, Th	2	DVL/EO	Two ml minimum, Coxiella burnetti
<b>Reovirus</b>							
IFA	Serum	Ice pack	\$15.00	M-F	3	DVL/BPA	
VI	Tissue	Ice pack	\$49.00	M-F	15	DVL/BPA	Porcine only

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Procedure	Specimens	Shipping Preservative	2009 User Fee	On Test Days	Min. Test Time (Days)	Testing Lab	Comments
<b>Rotavirus</b>							
EM	Feces	Ice pack	\$52.00	M-F	1	DVL/BPA	Identification
IFA	Serum	Ice pack	\$15.00	M-F	3	DVL/BPA	Bovine and porcine
VI	Tissue, feces	Ice pack	\$49.00	M-F	21	DVL/BPA	
<b>Salmonella (all subspecies)</b>							
ISOLATION	Various	Various	\$37.00	M-F	15	DBL/BI	Includes S. pullorum
PFGE	Culture	None	\$61.00	T-Th	3	DBL/BI	
PHAGE TY	Culture	None	\$24.00	M-F	10	DBL/BI	Salmonella enteritidis phage typing
PHAGE TY	Culture	None	\$43.00	M-F	10	DBL/BI	Salmonella typhimurium phage typing
SEROTYP	Culture	None	\$37.00	M-F	10	DBL/BI	
<b>Salmonella enteritidis</b>							
AGGL	Serum	Ice pack	\$7.25	M-F	1	DBL/BI	
<b>Salmonella typhimurium</b>							
AGGL	Serum	Ice pack	\$7.25	M-Th	2	DBL/BI	
<b>Scabies</b>							
IDENT	Parasite	EtOH, IPA	\$0.00	M-F	1	PL/PCP	ID of mites to species
IDENT	Skin scraping	Dry	\$0.00	M-F	1	PL/PCP	ID of mites to species
<b>Scrapie</b>							
HISTO	Block/brain stem	None	\$0.00	M-F	2	PL/PS	Formalin fixed - paraffin-embedded tissue blocks
HISTO	Fixed tissue/brain stem	Formalin	\$0.00	M-F	2	PL/PS	Brain stem is essential for all submissions
HISTO	Slide/brain stem	None	\$0.00	M-F	2	PL/PS	Slide stained with hematoxylin and eosin

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Procedure	Specimens	Shipping Preservative	2009 User Fee	On Test Days	Min. Test Time (Days)	Testing Lab	Comments
<b>Scrapie</b>							
IHC	Block tissue	None	\$0.00	M-F	3	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	8	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	1	PL/PS	Contact laboratory (515) 663-7521
<b>Screwworm</b>							
IDENT	Parasite	EtOH, IPA	\$0.00	M-F	1	PL/PCP	ID of fly larvae to species
<b>Serum screen</b>							
CHEM	Serum, blood	Ice pack	\$0.00	M-F		PL/PCP	Contact laboratory--(515) 663-7521.
<b>Shigellosis</b>							
IDENT	Culture	None	\$92.00	M-F	10	DBL/BI	
IDENT	Culture	None	\$54.00	M-F	10	DBL/BI	Automated
ISOLATION	Tissue	Ice pack	\$37.00	M-F	10	DBL/BI	
<b>Streptococcus</b>							
IDENT	Culture	None	\$92.00	M-F	10	DBL/BI	Including strangles
IDENT	Culture	None	\$54.00	M-F	10	DBL/BI	Automated
ISOLATION	Tissue	Ice pack	\$37.00	M-F	10	DBL/BI	Including strangles
<b>Swine influenza</b>							
HI	Serum	Ice pack	\$15.00	M-F	2	DVL/BPA	Multiple serotypes. User fee is per serotype.
HI/NI	Viral isolates	Dry ice	\$15.00	M-F	3	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.

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Procedure	Specimens	Shipping Preservative	2009 User Fee	On Test Days	Min. Test Time (Days)	Testing Lab	Comments
<b>Swine influenza</b>							
VI	Tissue	Ice pack	\$49.00	M-F	21	DVL/BPA	
<b>Tapeworm</b>							
FECX	Parasite	EtOH, IPA	\$0.00	M-F	1	PL/PCP	ID of adult to species
<b>Transmissible gastroenteritis</b>							
FATST	Tissue	Ice pack	\$30.00	M-F	2	DVL/BPA	
VI	Tissue	Ice pack	\$49.00	M-F	15	DVL/BPA	
VN	Serum	Ice pack	\$13.00	M-F	5	DVL/BPA	Two ml minimum
<b>Tuberculosis (See also Mycobacterium)</b>							
GAMMA INF	Heparinized blood	Ice pack	\$104.00	T,W,Th	2	DBL/SERO	Bovine, primate, and cervid samples must arrive within 24 hours of sample collection. Do not freeze samples. Six ml minimum
<b>Tularemia</b>							
IDENT	Culture	None	\$92.00	M-F	10	DBL/BI	Contact laboratory for arrangements (515)663-7565
ISOLATION	Tissue	Ice pack	\$94.00	M-F	10	DBL/BI	Contact laboratory for arrangements (515)663-7565
PLATE	Serum	Ice pack	\$7.25	M-F	1	DBL/SERO	Francisella tularensis, Two ml minimum
<b>Vesicular stomatitis</b>							
CELISA	Serum	Ice pack	\$17.00	M-F	1	DVL/BPA	Two ml minimum. New Jersey and Indiana types, two user fee charges per serum
CF	Serum	Ice pack	\$17.00	M-F	1	DVL/BPA	Two ml minimum. New Jersey and Indiana types, two user fee charges per serum
VI	Insect pool	Dry ice	\$49.00	M-F	7	DVL/BPA	Must be kept frozen

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Procedure	Specimens	Shipping Preservative	2009 User Fee	On Test Days	Min. Test Time (Days)	Testing Lab	Comments
<b>Vesicular stomatitis</b>							
VI	Tissue, fluid	Ice pack	\$49.00	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	\$13.00	M,W,F	3	DVL/BPA	Two ml minimum. New Jersey and Indiana types, two user fee charges per serum
<b>Vibriosis</b>							
IDENT	Culture	None	\$54.00	M-F	10	DBL/BI	Automated
IDENT	Various	Ice pack	\$92.00	M-F	10	DBL/BI	
ISOLATION	Culture	None	\$37.00	M-F	7	DBL/BI	Vibrio spp.
<b>Viral abortion</b>							
VI	Various	Ice pack	\$49.00	M-F	15	DVL/BPA	Serum, or fetal fluid--two ml minimum, and tissue. Bovine and porcine
<b>West Nile virus</b>							
IgM ELISA	Serum	Ice pack	\$17.00	M,Th	2	DVL/EO	Two ml. minimum
PCR	Brain	Dry ice	\$52.00	Varies	3	DVL/EO	Multiplex procedure detects WNV, EEE, and WEE. May ship sample refrigerated overnight
PRNT	Serum	Ice pack	\$18.00	F	5	DVL/EO	Two ml minimum
VI	Brain	Dry ice	\$49.00	Varies	14	DVL/EO	(See equine encephalomyelitis) PCR preferred for WNV detection
VN	Serum	Ice pack	\$13.00	F	5	DVL/EO	Two ml minimum
<b>Yersinia spp.</b>							
IDENT	Culture	None	\$92.00	M-F	14	DBL/BI	Yersiniosis, plague contact laboratory for arrangements (515)663-7565
ISOLATION	Various	Ice pack	\$37.00	M-F	14	DBL/BI	Contact laboratory for arrangements (515)663-7565
WBLOT	Serum	Ice pack	\$31.00	T,W,Th	2	DBL/SERO	Yersinia enterocolitica, 2 ml minimum

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