

Diagnostic Testing

National Veterinary Services Laboratories - Ames, Iowa

| Procedure | Specimens | Shipping Preservative | FY 2017 User Fee | On Test Days | Est. Time for Results* (Days) | Testing Lab | Comments |
|---------------------------------|---------------------------------------|-----------------------|------------------|--------------|-------------------------------|-------------|---|
| African horse sickness** | | | | | | | |
| 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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IF RESULTS ARE REQUIRED BY A SPECIFIC DATE PLEASE CONTACT NVSL PRIOR TO SHIPPING.

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| Anaplasmosis | | | | | | | |
| 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 (Egg drop syndrome 76) | | | | | | | |
| 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. |
| 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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| Avian infectious bronchitis | | | | | | | |
| 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. Regionally relevant antigens available, contact lab for list and pricing (515) 337-7551. |
| 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 | 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. |
| 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 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. Dry swabs are not acceptable. |

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| Avian influenza** | | | | | | | |
| 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. |
| 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 |
| 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 (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 NVSL regarding small birds. |
| 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 | |

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| Avian paramyxovirus type 1 (Newcastle disease) ** | | | | | | | |
| 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. |
| Avian paramyxovirus types 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. |
| 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. |
| 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 | |
| Bacterial Antibiotic Sensitivity | | | | | | | |
| AST | Culture | None | \$19.00 | M - F | 3 | DBL/BI | Antibiotic sensitivity test of bacteria except for Mycobacterium species |

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| Bacterial identification | | | | | | | |
| IDENT | Culture | None | \$58.00 | M - F | 7 | DBL/BI | |
| MALDI | Culture | None | \$8.00 | M - F | 2-7 | DBL/BI | MALDI Biotyper will be used for primary identification, followed by 16S rDNA sequencing (IDENT) if necessary. Please specify if you would like only MALDI Biotyper or 16s rDNA sequencing performed. |
| Bacterial isolation | | | | | | | |
| ISOLATION | Various | Various | \$40.00 | M - F | 7 | DBL/BI | |
| 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 |
| PCR | Blood, spleen | Ice pack | \$56.00 | M - F | 2 | DVL/EO | Four ml minimum. Refrigerate whole blood collected in EDTA. Do not freeze. A single PCR assay will be charged ½ hour rate; 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 | 20 | DVL/EO | Four ml minimum. Submit whole blood collected in EDTA or heparin. Do not freeze. Ship refrigerated overnight. |

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| Bluetongue | | | | | | | | |
| | VI | Semen | Dry ice | \$52.00 | M,W,Th,F | 20 | 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 | 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 TYPING | 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 | |

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| Bovine herpesvirus 2 | | | | | | | |
| 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 | |
| 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 |

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| Bovine respiratory syncytial virus | | | | | | | |
| 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 | PL/PS | Fresh chilled samples are the best sample for BSE. Submit BSE samples in formalin ONLY when no fresh samples are available. Program Use Only. |
| HISTO | Brain stem | Formalin fixed | \$0.00 | M - F | 10 | PL/PS | 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 | PL/PS | 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 | | | | | | | |
| 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 |

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| 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 |
| 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 |

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| 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 |
| 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 | \$58.00 | M - F | 7 | DBL/MB | |
| ISOLATION | Various | Dry ice | \$40.00 | M - F | 10 | DBL/MB | Tissue, milk, semen, etc. |
| PCR | Culture | None | \$58.00 | 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 |

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| 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 |
| 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 | Brain & lymph | Formalin fixed | \$28.00 | M - F | 10 | PL/PS | Brain stem is essential for all submissions. Whenever possible retropharyngeal lymph node should also be submitted. Formalin fixed tissue or paraffin-embedded tissue blocks. |

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| Chronic wasting disease | | | | | | | |
| IHC | Brain & lymph | Formalin fixed | \$40.00 | M - F | 10 | PL/PS | Formalin fixed tissue or paraffin-embedded tissue blocks. Whenever possible retropharyngeal lymph node should also be submitted along with the obex. |
| 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 |
| 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 |

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|-----------------------------------|---------------|-----------------------|------------------|--------------|-------------------------------|-------------|--|
| Contagious equine metritis | | | | | | | |
| 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 |
| 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 | |

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|--------------------------------------|-----------|-----------------------|------------------|--------------|-------------------------------|-------------|---|
| Cysticercosis | | | | | | | |
| IDENT | Tissue | Formalin | \$0.00 | M - F | 2 | PL/PCP | |
| Dourine | | | | | | | |
| AGID | Serum | Ice pack | \$18.00 | Th | 3 | DBL/SERO | Two ml minimum, Trypanosoma equiperdum. |
| CF | Serum | Ice pack | \$18.00 | M - F | 3 | DBL/SERO | Two ml minimum, Trypanosoma equiperdum |
| 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 | |
| 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 |
| Epizootic hemorrhagic disease | | | | | | | |
| AGID | Serum | Ice pack | \$18.00 | M - F | 2 | DVL/EO | Two ml minimum |

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| 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. A single PCR assay will be charged ½ hour rate; 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 | 20 | 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 | W,Th,F | 20 | 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 | 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 |

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| Equine encephalomyelitis | | | | | | | |
| IgM ELISA | Serum | Ice pack | \$18.00 | M, Th | 2 | DVL/EO | Two ml minimum, user fee is per strain |
| PCR | Brain | Dry ice | \$56.00 | M - F | 2 | DVL/EO | May ship refrigerated overnight with ice pack. A single PCR assay (EEE or WEE) will be charged ½ hour rate; subsequent PCR assays (within the DVL/EO lab) on the same sample will be charged ¼ hour each. |
| 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, 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 | Includes EHV-4 PCR at no additional charge. Ship whole blood refrigerated. This PCR assay will be charged ½ hour rate; subsequent PCR assays (within the DVL/EO lab) on the same sample will be charged ¼ hour each. |

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| 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 |
| 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 |
| Equine herpesvirus 2 | | | | | | | |
| VI | Swabs, whole blood | Dry ice | \$52.00 | W, Th | 14 | DVL/EO | Cytomegalovirus, Ship whole blood refrigerated |
| 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 at no additional charge. Ship whole blood refrigerated. This PCR assay will be charged ½ hour rate; subsequent PCR assays (within the DVL/EO lab) on the same sample will be charged ¼ hour each. |

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| Equine herpesvirus 4 | | | | | | | |
| 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 |
| 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 |

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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 | 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 | |
| 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 |
| 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 | |

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| Fowl cholera | | | | | | | |
| 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 |
| 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 |

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|---|--------------|-----------------------|------------------|--------------|-------------------------------|-------------|---|
| 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 |
| Histopathology | | | | | | | |
| HISTO | Fixed tissue | Formalin fixed | \$28.00 | M - F | 5 | PL/PS | Cost per slide |
| 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 |
| Import testing for avian-origin material | | | | | | | |
| CI | Varies | Dry ice | \$4,180.00 | M - F | 35 | DVL/AV | 20 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 | | | | | | | |
| 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 | |
| Johne's disease | | | | | | | |
| AGID | Serum | Ice pack | \$18.00 | M - W | 3 | DBL/SERO | Two ml minimum |
| 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 | |

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| Leptospirosis | | | | | | | |
| ISO | Kidney/liver fresh not frozen | Ice pack | \$56.00 | M - F | 30 | DBL/BI | Contact laboratory before submitting (515) 337-6216 |
| 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 |
| 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 | |
| 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) |
| 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 |
| 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 |

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| Mycobacterium | | | | | | | |
| DPP-Cervid | Serum | Ice pack | \$12.00 | M - F | 5 | DBL/SERO | DPP test for white-tail deer, elk, red deer, reindeer, and fallow deer only. |
| DPP-Elephant | Serum | Ice pack | \$12.00 | M - F | 5 | DBL/SERO | DPP test for elephant. Please contact testing lab at 515-337-7563 for test availability before submitting samples. |
| GAMMA INF | Heparinized blood | None | \$112.00 | T,W,Th | 3 | DBL/SERO | Bovine only. Samples must arrive within 24 hours of collection. Keep samples at room temperature. Six ml minimum. For primate samples: prior to sending samples, please call 515-337-7563 to arrange testing. |
| HISTO | Block containing lesion | Formalin fixed | \$28.00 | M - F | 1 | PL/PS | Formalin fixed tissue - paraffin-embedded tissue blocks. Cost is per slide. |
| IDENT | Culture | None | \$58.00 | M - F | 56 | DBL/MB | Identification of acid fast bacteria includes biochemical analysis and 16s rDNA sequencing analysis |
| 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 | Fixed tissue containing lesion | Formalin fixed | \$112.00 | M - F | 10 | PL/PS | Formalin fixed tissues or paraffin blocks 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 | 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 |
| 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 | |

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| Parasites, blood | | | | | | | |
| MX | Whole blood | EDTA | \$31.00 | M - F | 3 | PL/PPE | 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 | PL/PPE | Preserve in ethanol or isopropyl alcohol. ID to species: ticks, fly larvae, mange mites, lice, fleas |
| 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 |
| 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 |

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|----------------------------------|-----------------------------|-----------------------|------------------|--------------|-------------------------------|-------------|---|
| Piroplasmosis, equine | | | | | | | |
| 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. |
| PCR | Blood | EDTA | \$112.00 | Varies | 4 | DBL/SERO | EDTA required, not heparin 1 ml minimum. Contact Laboratory for schedule (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 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 |
| 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 |

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|----------------------------|-----------|-----------------------|------------------|--------------|-------------------------------|-------------|--|
| Porcine sapelovirus | | | | | | | |
| 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 | 7 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 Teshan disease (PTV1) contact state of federal vet before shipment |
| 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 | |

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| Pseudomonas | | | | | | | |
| ISOLATION | Tissue | Ice pack | \$40.00 | M - F | 7 | DBL/BI | |
| 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 |

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|------------------------------------|-----------|---------------|-----------------------|------------------|--------------|-------------------------------|-------------|-------------------------------------|
| Q-fever | | | | | | | | |
| | 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 | |
| | 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 | |

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|-------------------------------|-------------------------------|-----------------------|------------------|--------------|-------------------------------|-------------|---|
| 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 | |
| Scrapie | | | | | | | |
| HISTO | Brain stem | Formalin fixed | \$0.00 | M - F | 5 | PL/PS | Formalin fixed tissue or paraffin-embedded blocks. Submit entire brain if possible. |
| IHC | Brain & lymph | Formalin fixed | \$0.00 | M - F | 10 | PL/PS | Formalin fixed tissue or paraffin-embedded blocks. Brain stem is essential for all submissions. Whenever possible retropharyngeal lymph node and tonsil should also be submitted. |
| PrP-Codon | Whole blood, tissue, FTA card | None | \$33.00 | Varies | 10 | DBL/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 515.337.7388 for more information. |

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|---|--------------|-----------------------|------------------|--------------|-------------------------------|-------------|---|
| Sequencing Identification/Characterization | | | | | | | |
| SEQUENCING | Varies | Varies | \$84.00 | Varies | Varies | DBL/ALL | Bacteria whole genome sequencing and analysis. Contact Bacteriology Laboratory for sample requirements, pricing and scheduling. Price varies based on sample and analysis requested. (515) 337-7388 |
| SEQUENCING | Varies | Varies | \$84.00 | Varies | Varies | DVL/ALL | Virus whole genome sequencing and analysis. Contact Virology Laboratory for sample requirements, pricing and scheduling. Price varies based on sample and analysis requested. (515) 337-7551 |
| Serum screen | | | | | | | |
| CHEM | Serum, blood | Ice pack | \$0.00 | M - F | Varies | PL/PCP | Contact laboratory for details (515) 337-7065 |
| 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 |

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| Swine influenza | | | | | | | |
| 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 | |
| Transmissible gastroenteritis | | | | | | | |
| FATST | Tissue | Ice pack | \$31.00 | M - F | 5 | DVL/BPA | |
| 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 | 15 | DVL/BPA | |
| 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 | DBL/SERO | DPP test for white-tail deer, elk, red deer, reindeer, and fallow deer only. |
| DPP-Elephant | Serum | Ice pack | \$12.00 | M - F | 5 | DBL/SERO | DPP test for elephant. Please contact testing lab at 515-337-7563 for test availability before submitting samples. |

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| Tuberculosis (See also Mycobacterium) | | | | | | | |
| GAMMA INF | Heparinized blood | None | \$112.00 | T,W,Th | 3 | DBL/SERO | Bovine only. Samples must arrive within 24 hours of collection. Keep samples at room temperature. Six ml minimum. For primate samples: prior to sending samples, please call 515-337-7563 to arrange testing. |
| 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 |
| 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. |

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| Vesicular stomatitis | | | | | | | |
| 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 | M,W,F | 3 | DVL/BPA | Two ml minimum, New Jersey and Indiana types, two user fee charges per serum |
| 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 | May ship sample refrigerated overnight with ice pack. A single PCR assay will be charged ½ hour rate; 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 |

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| West nile virus | | | | | | | |
| 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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