

2024 PADLS Fee Schedule



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Pennsylvania Department of Agriculture
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Animal Diagnostic Laboratory
Pennsylvania State University
Wiley Lane
University Park, PA 16802-6720
(814) 863-0837

Accredited by the American Association of Veterinary Laboratory Diagnosticians



PADLS is dedicated to supporting Pennsylvania agriculture through the diagnosis and prevention of animal disease. Further information is available at:

www.padls.org

Follow the link to the **User guide** for collection of specimens, shipping guidelines, test set-up days, turn-around times, content of serology panels, submission forms, field sampling kits, available media, etc.

January 1, 2024

Fees are subject to change

General Policies

- Standard FAX reports are provided at no additional charge.
- A minimum fee of \$30 is charged for referral of specimens to non-PADLS laboratories (excluding rabies testing).
- Specimens for rabies virus detection, non-human exposure or for human exposures should be sent to the PADLS laboratory in Harrisburg. Testing is free for PA clients. Out-of-state clients may be charged \$150.00.
- A fee of \$25 is charged for shipping specimens for rabies testing using Quick Courier.
- A credit card or check is the acceptable method of payment.
- If a submitter contacts the laboratory to cancel a test already in progress but not finalized and reported, the associated accession fee will still be billed as a "**cancellation fee**". This fee may be waived at the discretion of the case coordinator on a case-by-case basis.

Accessioning

An accession fee is charged based on the total bill, as follows:

for fees up to \$19.99	\$5.00
for fees \$20.00 to \$39.99	\$12.00
for fees over \$40.00	\$18.00

No accession fee is levied for regulatory testing, including the following tests: AI, MG, MS, S. pullorum, EIA, or tests marked with the symbol "†".

Out-of State Fees

A 30% surcharge is applied for out-of-state submissions with the exception of contracts, or as specified. For autopsy/necropsy submissions, ancillary tests are charged a la carte in addition to the autopsy fee. Up to 30% charge is also

levied on exotics (excluding pet, farmed, wild-life, and zoological park submissions. Please contact the laboratory if you need more information.

Aquaculture

Hobbyist/pet fish autopsy/necropsy (1-5 fish)	\$40.00
Commercial fish autopsy/necropsy (1-5 fish)	\$60.00
Diagnostic virus isolation salmonid (3 pools, 5 fish per pool) for IPNV, IHNV, VHSV & VHSV type IVb	\$160.00
Diagnostic virus isolation For VHSV type IVb, only	\$90.00
Diagnostic virus isolation non-salmonid samples (3 pools, 5 fish per pool) for LMBV on FHM or BF-2 cells, or KHV on KF-1 cells, and PCR test LMBV or KHV VHSV Type IVb on FHM cells and PCR test VHSV Type IVb	\$120.00
Gill Lice Certificate Fee (Each)	\$25.00
Gill Lice Inspection Fee (Each)	\$60.00
Viral monitoring (salmonid samples, 12 pools, 5 fish per pool) for IPNV, IHNV, VHSV & VHSV Type IVb on both CHSE and FHM cell lines	\$215.00
Viral monitoring (non-salmonid samples, 12 pools, 5 fish per pool) for LMBV on FHM or BF-2 cells, or KHV on KF-1 cells and PCR test LMBV or KHV for VHS Type IVb on FHM cells and PCR test on VHSV – IVb, only	\$240.00
Whirling disease (60 fish)	\$300.00

*Bacteriology/Mycology

Aerobic culture	\$28.50
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Anaerobic culture	\$45.50
Antibiotic susceptibility (each)	\$16.50
Antibiotic susceptibility, MIC	\$24.00
<i>Bacillus anthracis</i> culture	\$22.00
Blackleg assay (FA, 4 antibodies)	\$17.50
Blood culture	\$47.50
<i>Brucella canis</i> culture	\$19.50
<i>Campylobacter spp.</i> culture (including Vibriosis)	\$23.50
Contagious equine metritis (CEM)	\$22.00
<i>Clostridium perfringens</i> culture	\$21.00
<i>Cl. difficile/perfringens</i> toxin ELISA	\$45.00
Darkfield microscope exam	\$8.50
Fungal culture	\$29.50
Gram stain	\$8.50
Isolate ID from plates & slants/isolate	\$4.50
<u>Johne's disease testing</u>	
Fecal culture	\$27.50
Pooled fecal culture (max. pool size 5)	\$27.50
Culture/sample from positive pool	\$27.50
Environmental culture	\$27.50

***also see Molecular Diagnostics (p 3)**

†**Johne's program testing**
(for information call: 717-783-5301)

Fecal culture	\$20.00
Pooled fecal culture (max. pool size 5)	\$27.50

Culture/sample from positive pool	\$12.00
Environmental culture	\$20.00
<i>Leptospira</i> FA	\$16.50
<u>Mastitis culture</u>	
Quarter/composite aerobic sample	\$6.00
Herd survey (>8 cows, all 4 quarters per cow)	\$13.00
<i>Mycoplasma</i>	\$10.00
Mycoplasma 10 samples/pool	\$13.00
Bulk tank milk analysis (quant. culture, 3 dilutions)	\$38.50
Bulk tank milk analysis & <i>Mycoplasma</i>	\$46.00
<i>Mycoplasma spp.</i> culture	\$20.50
Quantitative bacterial culture	\$33.00
<u>Salmonella culture</u>	
Fecal, env., feed, tissue sample, etc.	\$25.50
Herd screening (for >5 specimens)	\$17.50
NPIP culture procedure	\$26.50
† Environmental – in-state PEQAP	\$24.00
† FDA SE - in-state PEQAP	\$25.00
† FDA SE – in-state non-PEQAP	\$43.00
† FDA SE – out-of-state	\$60.50
ISO culture procedure	\$71.50
† RapidChek (Gp D1) SE test	\$20.00
RapidChek (Gp D1) SE test (out-of-state, non-regulatory)	\$34.00

† RapidChek SE confirmation culture	\$23.50
RapidChek SE confirmation culture (out-of-state, non-regulatory)	\$44.00
<i>Salmonella</i> serotyping	\$44.00
<i>Salmonella</i> serotyping (STAT) (billed through NBC)	\$66.00
<i>Salmonella</i> serogrouping	\$13.50
Special stains	\$10.00
† <i>Taylorella equigenitalis</i> culture	\$22.00
<i>Tritrichomonas</i> culture	\$27.50
Water analysis for coliforms	\$28.50
<i>Yersinia spp.</i> culture	\$20.50

Field Investigation

Avian/Aquatic site visit	\$150.00
Mammalian site visit (plus diagnostic testing costs if required)	\$150.00

Molecular Diagnostics

<i>Actinobacillus pleuropneumoniae</i> PCR	\$35.00
African Swine Fever Virus (ASF) RRT-PCR	Call the lab
<i>Anaplasma marginale</i> PCR	\$35.00
<i>Anaplasma phagocytophilum</i> (Granulocytic Anaplasmosis)	\$35.00
<i>Bordetella avium</i> Real-time PCR	\$35.00
<i>Borrelia burgdorferi</i> (Lyme disease) Duplex PCR	\$35.00
† Avian influenza PCR (and H5/H7 strain typing)	\$35.00

† Avian influenza PCR (State shows/exhibition/LBM)	\$15.00	<i>Chlamydophila psittaci</i> PCR (Isolate confirmation)	\$35.00
Avian paramyxovirus-1 (and END) PCR	\$35.00	Classical swine fever PCR	Call the Lab
Avian reovirus or rotavirus PCR (each PCR test)	\$80.00	<i>Clostridium perfringens</i> toxin typing PCR	\$35.00
<i>Avibacterium paragallinarum</i> PCR	\$35.00	CWD Prion Protein (PRNP) Genotyping	\$35.00
<i>Bordetella avium</i> Real-time PCR	\$35.00	Duck Atadenovirus A (Egg Drop Syndrome 1976) real-time PCR	\$35.00
Bovine coronavirus (BCoV) PCR	\$35.00	Eastern equine encephalitis (EEE) PCR	\$35.00
Bovine herpesvirus (BHV1) or Infectious bovine rhinotracheitis (IBR) virus PCR	\$35.00	Epizootic hemorrhagic disease (EHD) PCR	\$35.00
Bovine Leukemia Virus (BLV) PCR	\$35.00	Equine Coronavirus (ECoV) PCR	\$35.00
Bovine Parainfluenza – 3 PCR	\$35.00	Equine herpesvirus-1 (EHV-1) PCR (Abortigenic & neuropathogenic strain differentiation upon request)	\$35.00
Bovine respiratory syncytial virus (BRSV) PCR	\$35.00	Foot and mouth disease PCR	Call the Lab
Bovine viral diarrhea virus (BVDV) PCR (tissue/milk/serum)	\$35.00	Infectious bronchitis virus PCR	\$50.00
☆ Contact lab for details and scheduling		Infectious bronchitis – Mass., Conn., Ark. Strains PCR	\$100.00
☆ BVDV (type 1 & 2) pooled PCR for serum or blood – cattle (max. pool size 30) or camelids (max. pool size 10)	\$60.00	Infectious laryngotracheitis virus (ILTV) PCR	\$80.00
☆ BVDV pooled PCR for serum (exports, only-applicable for ≥ 100 cattle; max. pool size 10)	\$30.00	Influenza A PCR (avian, canine, equine, swine)	\$35.00
BVDV pooled ear notch PCR (max. pool size 20)	\$30.00	Influenza A H5/H7 RRT – PCR	\$35.00 each
Bluetongue virus (BTV) PCR	\$25.00	Influenza D PCR	\$35.00
<i>Campylobacter jejuni</i> PCR	\$35.00	Koi carp herpesvirus PCR	\$35.00
Canine Distemper Virus (CDV) PCR	\$35.00	<i>Lawsonia intracellularis</i> real-time PCR	\$35.00
Canine Distemper Virus (CDV) typing	\$50.00	<i>Leptospira</i> spp. PCR	\$35.00
<i>Chlamydophila</i> spp. PCR	\$35.00	<i>Listeria monocytogenes</i> PCR	\$50.00
		Malignant Catarrhal Fever (MCF)/Ovine Herpesvirus 2 PCR	\$35.00

Microbial sequencing viral ID	\$80.00	PRRSV Eurasian/North America strain PCR	\$35.00
† <i>Mycobacterium paratuberculosis</i> (Johne's) individual PCR	\$27.50	<i>Salmonella</i> genomic fingerprinting – PFGE	\$50.00
† <i>Mycobacterium paratuberculosis</i> (Johne's) pooled PCR (max. pool size 5)	\$35.00	<i>Salmonella</i> plasmid profile	\$35.00
<i>Mycoplasma bovis</i> PCR	\$35.00	† <i>Salmonella</i> Enteritidis (SE) PCR [FDA only]	\$30.00
<i>Mycoplasma gallisepticum</i> (MG)	\$20.00	† SE PCR (PEQAP & FDA or NPIP) egg or environmental	\$25.50
<i>Mycoplasma synoviae</i> (MS)	\$20.00	<i>Salmonella</i> spp. PCR	\$35.00
MG/MS duplex [NPIP] PCR	\$40.00	SARS-CoV-2 real-time PCR	\$50.00
<i>Mycoplasma hyopneumoniae</i> PCR	\$35.00	† Scrapie Prion Protein (PRNP) Genotyping	\$35.00
<i>Mycoplasma</i> spp. PCR	\$35.00	Seneca Valley virus (SVA) PCR	\$35.00
<i>Neospora caninum</i> Real-Time PCR	\$35.00	Sequencing for bacterial (16S) or fungal (28S) ID	\$50.00
<i>Ornithobacterium rhinotracheale</i> (ORT) Real-time PCR	\$35.00	<i>Streptococcus equi</i> subspecies <i>equi</i> PCR	\$37.00
Parainfluenza virus (PI3) PCR	\$25.00	Swine influenza PCR (including novel H1N1)	\$40.00
<i>Pasteurella multocida</i> toxA PCR	\$35.00	Transmissible gastroenteritis virus (TGEV) PCR	\$35.00
Porcine circovirus type 2 (PCV-2)	\$35.00	<i>Tritrichomonas foetus</i> PCR	\$35.00
Porcine parvovirus (PPV) RT-PCR	\$35.00	West Nile virus (WNV) PCR	\$35.00
Porcine epidemic diarrhea virus (PEDV) – Swine delta corona-Virus (SDCoV) – Transmissible Gastroenteritis virus (TGEV) Multiplex PCR Panel	\$35.00		
Porcine respiratory coronavirus (PRCV) and Transmissible gastroenteritis virus (TGEV) gel-based PCR	\$35.00		
Porcine reproductive & respiratory syndrome virus (PRRSV) PCR	\$35.00		
Potomac horse fever (<i>Neorickettsia risticii</i>) Real-Time -PCR	\$35.00		

Parasitology (fecal)

Cryptosporidium ELISA	\$15.00
Cryptosporidium and Giardia FA	\$22.00
Cryptosporidium acid fast testing	\$9.00
Centrifugation/fecal flotation, quantitative	\$25.00
Fecal parasite direct smear	\$13.00

Modified double fecal centrifugation	\$15.00
Modified McMaster's fecal flotation	\$15.00
Preserved Parasite identification	\$30.00

Equine >250 lbs., tier 2	\$425.00
Out-of-state	\$850.00

Dog/Cat/Small companion animal	\$425.00
Out-of-state	\$850.00

Pathology

Histopathology

Surgical Biopsy	\$70.00
Surgical Biopsy – eye	\$80.00
#†CWD IHC	\$25.00
Endometrial biopsy with epicrisis	\$50.00
H & E slide preparation, only	\$10.00
Immunohistochemistry per slide	\$40.00
Special stains	\$10.00

Dog/Cat/Small companion animal, non-profit organization	\$150.00
Out-of-state	\$300.00

Dog/Cat/Small companion animal, non-profit, legal case	\$200.00
Out-of-state	\$400.00

Field autopsy/necropsy or head, tier 1	\$100.00
Out-of-state	\$200.00

Field autopsy/necropsy or head, tier 2	\$200.00
Out-of-state	\$400.00

Field autopsy/necropsy or head, Dog/Cat/Small companion animal	\$143.00
Out-of-state	\$286.00

Accession fee waived for veterinarian/CCT submitted cervines, only (please see Hunter harvest submission form)

*** Mammalian autopsy fees include accession and carcass disposal fees. Please contact NBC for additional fees related to carcass disposal.

Autopsy/Necropsy – mammals ***

Aborted fetus, per dam (serology not included)	\$200.00
Out-of-state	\$400.00
Animals <250 lbs., tier 1	\$120.00
Out-of-state	\$240.00
Animals <250 lbs., tier 2	\$220.00
Out-of-state	\$440.00
Animals >250 lbs., non-equine, tier 1	\$180.00
Out-of-state	\$360.00
Animals >250 lbs., non-equine, tier 2	\$280.00
Out-of-state	\$560.00
Equine >250 lbs., tier 1	\$325.00
Out-of-state	\$650.00

Additional Pathology Fees

Autopsy surcharge <250 lbs NBC only	\$25.00
Autopsy surcharge, 250-500 lbs., NBC only	\$75.00
Autopsy surcharge, >500 lbs., NBC only	\$150.00
Demineralization	\$30.00
Diarrhea panel	
2 weeks and younger	\$125.00
Over 2 weeks old	\$140.00
Dog/Cat/Small companion animal	\$25.00
Carcass disposal >100 lbs.	

Field autopsy/necropsy mailers (partials available)	\$16.00
Orthopedic exam	\$150.00
Spinal cord exam level 1	\$100.00
Spinal cord exam level 2	\$200.00
TSE (CWD & Scrapie) sample extraction/head	\$16.00
TSE (CWD & Scrapie) head disposal	\$21.00
TSE (CWD & Scrapie) carcass disposal	\$42.00

Autopsy/Necropsy – Avian

Backyard flocks	\$30.00
Commercial poultry, pet birds Wild birds	\$70.00
SE Reactors (cultures/PCR additional)	\$70.00
Hatchery residue break-out analysis	\$120.00
Avian carcass disposal with autopsy, necropsy <25 lbs.	\$10.00
Avian carcass disposal with autopsy, necropsy >25 lbs.	\$21.00

<u>Carcass Disposal (no testing requested)</u>	
<250 lbs.	\$25.00
>250 lbs.	\$75.00
>500 lbs.	\$150.00

★ Please contact NBC and ADL for fees related to carcass disposal.

Serology – Avian

†All avian AGID, except avian Influenza	\$3.00
†Avian influenza – AGID serum	\$1.55
†Avian influenza – AGID eggs	\$2.50
†Avian influenza – AGID (program)	\$0.55

Avian influenza – AGID (out-of-state)	\$2.00
All avian serological ELISA	\$2.00
†All avian HI (except as noted)	\$3.00
Infectious bursal disease – AGID	\$3.00
† <i>Mycoplasma</i> – plate	\$1.00
<i>Mycoplasma</i> – plate (out-of-state)	\$1.30
<i>Mycoplasma gallisepticum</i> (MG) ELISA	\$1.50
<i>Mycoplasma synoviae</i> (MS) ELISA	\$1.50
† <i>Mycoplasma</i> (MG/MS) Combo Elisa	\$2.00
† <i>Salmonella pullorum</i> – plate/tube	\$0.50
<i>Salmonella pullorum</i> – plate/tube (out-of-state)	\$1.00

Serology – Mammalian

Anaplasmosis - cELISA	\$6.00
Bluetongue- AGID	\$4.00
Bluetongue – cELISA	\$6.00
Bovine leukosis virus (BLV) - ELISA	\$6.00
Bovine parainfluenza-3 – HI	\$6.00
†Bovine pregnancy - ELISA	\$3.50
Bovine prepurchase panel (ea.)	\$20.00
Bovine reproductive panel (ea.) (includes acute + convalescent)	\$40.00
Bovine respiratory panel (ea.) (includes acute + convalescent)	\$40.00
Bovine respiratory syncytial virus (BRSV) – SN	\$11x.00
Bovine viral diarrhea (BVD) – SN	\$11.00

Brucellosis

Brucella acidified plate (BAPA)	\$2.00
<i>Brucella canis</i> Indirect Immunofluorescent Antibody test (IFA)	\$17.50
<i>Brucella canis</i> Tube Agglutination	\$17.00
Card agglutination	\$2.00
Complement fixation	\$10.00
Export, any test except CF	\$2.00
Fluorescent polarization assay (FPA)	\$2.50
Standard plate test (SPT)	\$2.00
Standard tube test (STT)	\$2.00
(Brucellosis) Ovine - ELISA Positive cases sendout	\$6.00 referral fee
Eastern equine encephalitis virus (EEE) IgM antigen-capture ELISA	\$20.00
† Equine infectious anemia – AGID (Coggins)	\$7.50
Coggins/EIA Reissue >30 days	\$10.00
† Equine infectious anemia – cELISA	\$20.00
Equine rhinopneumonitis (EHV 1, 4) - SN	\$11.00
<i>Histophilus somni</i> - AGGL	referral fee
Infectious bovine rhinotracheitis (IBR) – kinetic-ELISA	referral fee
Infectious bovine rhinotracheitis (IBR) – SN	\$11.00
† Johne's disease (serum) – ELISA [program]	\$4.00

Johne's disease (serum) – ELISA [non-program]	\$5.00
† Johne's disease (milk) – ELISA [program]	\$5.00
Johne's disease (milk) – ELISA [non-program]	\$5.50
Leptospirosis (5 serovars) – MAT <i>canicola, grippotyphosa, hardjoprajitno, icterohaemorrhagiae, and pomona</i>	\$14.00
Leptospirosis (6 serovars) – MAT <i>canicola, grippotyphosa, hardjoprajitno, icterohaemorrhagiae, pomona, plus bratislava or autumnalis</i>	\$16.50
Leptospirosis (7 serovars) – MAT <i>canicola, grippotyphosa, hardjoprajitno, icterohaemorrhagiae, pomona, bratislava & autumnalis</i>	\$20.00
Neospora caninum – ELISA	\$7.00
Equine Piroplasmosis (<i>Babesia caballi</i>)	\$18.00
Equine Piroplasmosis (<i>Theileria</i> [<i>Babesia</i>] <i>equi</i>)	\$18.00
Equine Piroplasmosis (<i>Babesia</i> <i>caballi</i> & <i>Theileria</i> [<i>Babesia</i>] <i>equi</i>)	\$34.00
Porcine parvovirus – HI	\$10.00
Porcine reproductive & respiratory syndrome (PRRS) – ELISA	\$5.50
Pseudorabies (PRV) ELISA (PRV gpl differential)	\$4.50
Pseudorabies (PRV) ELISA (PRV gB non-differential)	\$4.50
Q fever (<i>Coxiella burnetti</i>) – ELISA	\$12.00
Small ruminant lentivirus (SRLV) - cELISA [CAE, OPP]	\$6.00
Small ruminant pre-purchase panel Johne's, CLA, CAE, OPPV cElisa	\$20.00
Small ruminant reproductive panel	\$45.00

Swine influenza – HI (Includes HI and H3)	\$6.00
Toxoplasmosis – HA	referral fee
West Nile virus – IgM antigen-capture ELISA	\$16.00

or LC/MS screens

Macrolides (ivermectin, moxidectin, doramectin, selamectin, eprinomectin, spinosad, milbemycin)	\$109.00
Melamine/cyanuric acid	\$153.00

Toxicology

Algal toxins screen (anatoxin, microcystins, nodularin) using LC/MS	\$153.00
Anion, single – various sample types	\$39.00
Anticoagulant rodenticide screen	\$80.00
Chloride	\$39.00
Chlorinated hydrocarbon (insecticide screen)	\$109.00
Cholinesterase, blood	\$28.00
Cholinesterase, brain	\$34.00
Convulsants screen (Penitrem, roquefortine, strychnine)	\$80.00
Cyanide (prussic acid)	\$37.00
Drug analysis, single drug (call lab for availability)	\$153.00
Drug screen, prepurchase	\$196.00
Electrolytes panel (Mg, Ca, Cl, P, K)	\$41.00
Ethylene glycol (antifreeze)	\$63.00
Fat content	\$22.00
Ionophore screen (monensin, lasalocid, etc.)	\$109.00
LC/MS screen	\$80.00
LC/MS confirmation of GC/MS	\$80.00

Mineral panels

Heavy metal screen (As, Cd, Pb, Tl)	\$39.00
Serum mineral screen w/selenium	\$46.00
Nutritional tissue or biopsy metal screen (Ca, Co, Cu, Fe, Mg, Mn, Mo, Se, Zn)	\$46.00
Complete (tissue, feed, biological fluid – 15 elements [Se, but no Hg])	\$56.00
Ocular fluid (Ca, Cl, Mg, Na, K, P)	\$46.00
Lead	\$26.00
Mercury	\$32.00
Selenium (blood, serum, tissue)	\$29.00
Selenium (feed)	\$38.00
Single element – not Se or Hg (fluid, tissue, feed)	\$26.00
Single element, non-routine	\$59.00
Mycotoxin screen (aflatoxins, DON/vomitoxin, fumonisins, ochratoxin, T-2 toxin, zearalenone)	\$107.00
Mycotoxin, single	\$52.00
Nitrates/nitrites	\$39.00
Nonsteroidal anti-inflammatory screen (call for current list of drugs included)	\$80.00
Organic chemical screen	\$80.00

Organochlorine insecticide and PCB screen	\$109.00
PCBs (total)	\$109.00
Pesticide screen (organophosphates, carbamates, metaldehyde, avitrol, starlicide, strychnine)	\$80.00
Plant identification	\$28.00
Prussic acid (cyanide)	\$37.00
Tranquilizer screen (call for list of drugs included)	\$80.00
Vitamin E (serum)	\$30.00
Vitamin E (tissue)	\$36.00

Virology, Avian

(see Molecular Diagnostics also)

AGID test for detection of avian virus antigens	\$5.00
Avian influenza (AIV) - paramyxovirus (PMV) – VI	\$35.00
Avian influenza – dot ELISA (AIV, only)	\$7.50
†Avian influenza - VI for show/Exhibition/LBM 5 swabs/pool [in-state]	\$15.00
Chlamydia isolation	\$40.00
FA test for detection of avian virus antigens	\$15.00
Direct transmission electron microscopy negative staining (per specimen)	\$55.00
Infectious bronchitis virus - monoclonal antibody-based dot ELISA	\$7.50
Infectious bronchitis virus –	\$88.00

monoclonal antibody-based IFA for Mass., Conn., & Ark.

Influenza A – antigen-capture immunoassay	\$18.00
PMV type-2 and type-3 VI	\$45.00
Virus isolation (all others)	\$45.00

Virology, Mammalian

All mammalian virology – FA	\$10.00
Bovine rotavirus – LFIA	\$8.00
BVD ear notch immunohistochemistry	\$5.50
BVD ear notch - ELISA	\$5.50
BVD microplate assay pi (persistent infection)	\$10.00
BVD virus ELISA (serum)	\$6.00
Bovine coronavirus – ELISA	\$20.00
Direct transmission electron microscopy negative staining (per specimen)	\$90.00
Influenza A – antigen-capture immunoassay	\$18.00
Virus isolation	\$40.00

Call the PA Beef Council @ (888) 423-3372 for information on BVD, BQA & DBQA programs