

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Acid Fast Stain (for bacteria)	8.50 /sample	Bacteriology	M-F	1-2 days	1) Affected tissue, lesion, or fluid; 2) Impression smear	1) Amies transport media (swab) or sealed sterile container; 2) slide mailer	1) Refrigerate. Ship in insulated container with ice pack. 2) Not required
For the direct microscopic detection of Mycobacterium species. *May qualify for New York State contract pricing							
Acidic-Extracted Drugs	70.00 STAT+25	Toxicology	M-F	2 business days	1) 4 ml heparinized (preferred) or EDTA plasma or serum; OR 2) 10 ml heparinized (preferred) or EDTA whole blood; OR 3) 50 ml urine	Heparinized tube(s), no gel clot; or red top tube with transferred heparinized plasma, labeled accordingly. Less ideal: red top tube with transferred serum or EDTA plasma OR red top/lavender top tube(s) with whole blood OR urine in leak-proof container	1-3) Refrigerate. Ship for next day delivery in insulated container with freezer pack(s)
Qualitative drug screening and confirmation. Analytes include, but are not limited to: Acetaminophen, Barbiturates, Bumetanide, Chlorothiazide, Diclofenac, Diflunisal, Firocoxib, Flufenamic Acid, Flunixin, Flurbiprofen, Furosemide, Griseofulvin, Ibuprofen, Indomethacin, Ketoprofen, Meclofenamic Acid, Meprobamate, Methocarbamol, Naproxen, Oxyphenbutazone, Phenylbutazone, Nabumetone, Salicylic Acid, Sulfa Drugs (Sul diazine, Sulfadimethoxine, Sulfadimidine, Sulfafurazole, Sulfamerazine, Sulfamethoxazole, Sulfanilamide, Sulfapyridine, Sulfathiazole), Sulindac, Thiosalicylic Acid, Tolmetin, Zomepirac.							
Aerobic Bacterial Culture	40.00 /sample	Bacteriology	M-F	2-7 days	Affected tissue, lesion, fluid aspirate or swab in bacterial transport media	Amies transport media (swab) or sealed sterile container	Refrigerate. Ship in insulated container with ice pack.
For the isolation of aerobic bacteria. Tissues are not routinely pooled for aerobic cultures. When multiple tissues are submitted and aerobic culture is requested, we will culture each separately, and a fee for each tissue will accrue. To detect Salmonella from GI samples, a Salmonella culture should be requested. Salmonella is readily identified in aerobic cultures from non-GI sources. To detect Listeria in brain or CSF specimens, a Listeria culture should be requested. Listeria is readily identified in aerobic cultures from systemic samples of septicemic animals or fetal tissues. Streptococcus equi is identified in routine aerobic cultures. If no other aerobic bacteria are of diagnostic concern, a Strep. equi culture can be used to rule in/out Strep. equi only. For Campylobacter spp., Mycoplasma spp., Ureaplasma spp., Yersinia spp. and Brucella spp., individual cultures specific to the bacteria should be requested, as they are not detected reliably in routine aerobic cultures. *May qualify for New York State contract pricing. Antimicrobial susceptibilities are not included in the testing fee. Susceptibilities will be performed only if specifically requested. See Antimicrobial Susceptibility (MIC) and Antimicrobial Susceptibility, Ophthalmology. Preliminary results will be provided one day after sample processing begins.							
Aerobic Culture (QMPS)	5.50 NY; Out of state price - \$10.00	Quality Milk Production Services	M-F	48 hrs	1-15 ml Milk, Teat Dip or Colostrum; Swab	Clean, Sealed Container	Refrigerate or Freeze sample, Ship on ice
Alanine Aminotransferase (ALT)	8.50 /sample (blood, fluid)	Clinical Pathology	M-Sa	1-2 days	1) 1 mL separated serum or heparinized plasma; 2) fluid	Red top (non-anticoagulant) or green top (heparin) tube	Refrigerate. Ship overnight in insulated container with freezer packs.
See Eclinpath for more information							
Albumin	8.50	Clinical Pathology	M-Sa	1-2 days	1) 1 mL separated serum or heparinized plasma; 2) fluid; 3) 2 mL urine	Red top (non-anticoagulant) or green top (heparin) tube	Refrigerate. Ship in insulated container with ice pack.
See Eclinpath for more information							
Alkaline Phosphatase (ALP)	8.50 /sample	Clinical Pathology	M-Sa	1-2 days	1) 1 mL separated serum or heparinized plasma; 2) fluid;	Red top (non-anticoagulant) or green top (heparin) tube	Refrigerate. Ship overnight in insulated container with freezer packs.
See Eclinpath for more information							
Alkaloid Screen	331.00 /sample	Toxicology	M-F, as needed	5-7 days	1) liver; 2) heparin whole blood; 3) urine; 4) other materials	1-3) unbreakable sterile container; 4) Heparinized tube, no gel clot	1-4) Refrigerate. Ship in insulated container with ice pack.
Qualitative screening for alkaloids such as strychnine, brucine, caffeine, theobromine, theophylline, nicotine, atropine, cocaine, morphine, codeine, ephedrine, reserpine, quinine, and solanidine, on request. Samples arriving at AHDC between October 27 and December 15 will be forwarded to a referral lab for analysis.							
Ammonia	54.00	Clinical Pathology	M-F	1 day	Separated plasma from a purple top (EDTA) or green top (heparin) tube	Red top (with separated plasma) or purple top (whole blood)	Refrigerate: 4 C or frozen (on dry ice) – see Appendix A for special handling instructions
Used to identify hyperammonemia in cases with neurologic symptoms due to hepatic failure (hepatic encephalopathy), enteric disease (colonic disorders in horses) and inherited disorders of ammonia metabolism. Call the lab at 607-253-3255 prior to drawing sample. See Eclinpath for more information							

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\* Each accession received will be charged a \$5.00 accessioning fee, in addition to the requested testing. Fees are subject to change without notice, please call the lab if you have any questions. Contract pricing available. For information please refer to <https://ahdc.vet.cornell.edu/billing/contract.cfm>  
\*\* "Lag Time" is counted in business days, unless otherwise specified, from the day the specimen arrives until the day the test result is reported, assuming there are no complications with testing.

Page 1 of 41

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Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Amylase  See Eclinpath for more information	8.50 /sample (blood, fluid)	Clinical Pathology	M-Sa	1-2 days	1) 1 mL separated serum or heparinized plasma; 2) fluid	Red top (non-anticoagulant) or green top (heparin) tube	Refrigerate. Ship in insulated container with ice pack.
Amylase, urine	16.50	Clinical Pathology	M-Sa	1-2 days	1 mL urine	Red top (non-anticoagulant) tube or plastic leakproof container	Refrigerate. Ship overnight in insulated container with freezer pack.
Anabolic Steroids in Urine  Qualitative screening for boldenone, dianabol, and stanozolol. Samples arriving at AHDC between October 27 and December 15 will be forwarded to a referral lab for analysis.	441.00 /sample	Toxicology	M-F as needed	7 business da	urine or plasma	sterile container	Refrigerate. Ship in insulated container with ice pack.
Anaerobic Bacterial Culture  For the isolation of anaerobic bacteria. Ship overnight. Antimicrobial susceptibilities are not applicable. Please consider using the Foal Diarrhea/Septicemia Kit and Adult Equine Diarrhea Kit for equine diarrhea submissions. Tissues (>2-3 cm in diameter, minimum size or ligated loops of bowel) are ideally held and shipped frozen with sufficient insulation and freezer packs to arrive next day and very cold; refrigerated temperatures are acceptable only for tissue samples delivered to the lab within 24 hours of collection. DO NOT Refrigerate anaerobic transport media tubes or vials Despite labeling to the contrary, culture systems containing Amies transport media or Stuart transport media are inappropriate as transport systems for anaerobic culturing. Swabs transported without any transport media are unsuitable for both aerobic and anaerobic culture.	45.00 /sample	Bacteriology	M-F	2-7 days	1) Fluid aspirate inoculated into anaerobic transport media vials for liquid specimens(Cary-Blair, e.g. BBL™ Port-a-cul™ or Anaerobic Systems ATM); 2) Fresh tissue (>2-3 cm in diameter, minimum size); 3) Ligated loop of intestine; 4) Swab or small tissue collected and immediately placed in anaerobic transport media tube for swabs(Cary-Blair, e.g. BBL™ Port-a-cul™ or Anaerobic Systems ATM)	1,4) Anaerobic transport media (Cary-Blair, e.g. BBL™ Port-a-cul™ or Anaerobic Systems ATM): tube or vial form - see sample info above; 2-3) tissues (>2-3 cm in diameter, minimum size)(not swabs) in sealed sterile container	1) DO NOT Refrigerate anaerobic transport media tubes or vials; 2-3) Tissues (>2-3 cm in diameter, minimum size) are ideally held and shipped frozen with sufficient insulation and freezer packs to arrive next day and very cold; refrigerated temperatures are acceptable only for tissue samples delivered to the lab within 24 hours of collection.
Anaplasma phagocytophilum (Ehrlichia equi) PCR  PCR to detect Anaplasma phagocytophilum EDTA blood is the preferred sample from a sick animal. Ticks must first be submitted for parasite ID to determine if they are a vector species; see Parasite Identification test.	36.75	Molecular Diagnostics	M-F as needed	3-5 days	1) EDTA blood, buffy coat (min. 2 mL); 2) tick: see comment; 3) tissue (min. 5 g)	unbreakable, leak-proof container	Refrigerate
Anaplasmosis c-ELISA  Enzyme linked immuno-assay for detecting antibodies to Anaplasma marginale. Acceptable species: Bovine; Non-bovine species (Caprine, Camelid, and Ovine) can be tested. However, test validation has not been done on the new version of this kit. Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze. Paired serum samples are recommended for optimal diagnostic test interpretation.	11.00	Virology	W	1 wk	1 ml serum, plasma is not an acceptable sample for this test	red top blood collection tube	It is recommended to ship samples with an ice pack.
Anesthetic Screen  Qualitative screening for acepromazine, barbiturates, ketamine, morphine, xylazine, tiletamine/zolazepam. Special request only; contact Lab.	331.00 per /sample	Toxicology	M-F as needed	3 business da	1) urine; 2) heparin whole blood; 3) liver	1) sterile, leak-proof container; 2) Heparinized tube; 3) sterile, leak-proof container	1-3) Refrigerate. Ship in insulated container with ice pack.
Antibiotic Residue (CHARM)  Non NYS Price: \$7.50; <4.4°C	7.25 NY	Quality Milk Production Services	M-F		1-15 ml milk	Clean, sealed container	Refrigerate or freeze sample, Ship on ice
Antibiotic Susceptibility  3 cultures/plate, fresh culture	25.00	Quality Milk Production Services	M-F	24 hrs	1-15 ml milk; plate	Clean, Sealed Container	Refrigerate. Ship in insulated container with ice packs.

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Page 2 of 41

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Anticoag/Rodenticide Screen, liquid  Screening for brodifacoum, bromadiolone, chlorophacinone, dicoumarol, difenacoum, diphacinone, flocoumafen, warfarin For more information, see Strychnine, liquids/fluids.	165.50 /sample	Toxicology	M-F	3 business days	1) heparin whole blood; 2) urine	1) Heparinized tube; 2) sterile container	1-2) Refrigerate. Ship in insulated container with ice pack.
Anticoagulant/Rodenticide Screen, solids  Qualitative testing for Brodifacoum, Bromadiolone, Chlorophacinone, Dicoumarol, Difenacoum, Diphacinone, Flocoumafen, Warfarin For more information, see Strychnine, solids.	165.50 /sample	Toxicology	M-F	5 business days	1) liver; 2) stomach contents; 3) feed	1-3) sterile container	1-2) Freeze. Ship in insulated containers with ice packs.
Antimicrobial Susceptibility (MIC)  Includes systemic antimicrobials. Bacterial culture must be performed to recover an isolate before testing can be done. Cost of culture is separate. For susceptibilities on bacterial isolates, pure, identified cultures must be submitted. *May qualify for New York State contract pricing .	28.00 /isolate	Bacteriology	M-F	2-5 days	1) Affected tissue, lesion or fluid; 2) Feces or intestinal content; 3) Bacterial isolate	1) Amies transport media (swab) or other appropriate bacterial transport media OR 2) Exudate or aspirate fluid in sealed sterile container OR 3) Bacterial isolate on Agar slant or plate (sealed) or swab in appropriate bacterial transport media	1-3) Refrigerate. Ship in insulated container with ice pack.
Antimicrobial Susceptibility, Ophthalmology  Includes topical ophthalmic antimicrobials. *May qualify for New York State contract pricing . Bacterial culture must be performed to recover an isolate before testing can be done. Cost of culture is separate. For susceptibilities on bacterial isolates, pure, identified cultures must be submitted. Special certified training is required for the shipment of some pure cultures. Contact AHDC laboratory with questions	30.50 per isolate	Bacteriology	M-F	2-5 days	1) Bacterial isolate	1) In house culture isolate 2) Agar slant or plate (sealed)	1-2) Refrigerate. Ship in insulated container with ice pack.
Antimicrobial Susceptibility, Urine  Includes antimicrobials that concentrate in the bladder. *May qualify for New York State contract pricing . Bacterial culture must be performed to recover an isolate before testing can be done. Cost of culture is separate. For susceptibilities on bacterial isolates, pure, identified cultures must be submitted. **Shippers of bacterial isolates must be fully trained in Hazardous Materials Shipping and adhere to all applicable regulations.	24.50 /isolate	Bacteriology	M-F	2-5 days	1) Urine; 2) Bladder tissue/stones; 3) Bacterial isolate** (see Comment)	1-2) Sterile container or Amies transport media (swab); 3) Agar slant or plate (sealed)	1-3) Refrigerate. Ship in insulated container with ice packs.
Antithrombin (AT3)  Ship Overnight. For additional info see Submission Guidelines, or see Comp Coag web page	35.75	Comparative Coagulation	M-F	same day	1 mL separated citrate plasma	plastic or siliconized glass tube in styrofoam box	Refrigerate. Ship in insulated container with ice pack.
aPTT (Activated Partial Thromboplastin Time)  Ship Overnight. For additional info see Submission Guidelines, or see Comp Coag web page	14.50	Comparative Coagulation	M-F	same day	1 mL separated citrate plasma	plastic or siliconized glass tube in styrofoam box	Refrigerate. Ship in insulated container with ice pack.
aPTT Inhibitor Screen  Ship Overnight; requires aPTT on same sample; for additional info see Submission Guidelines, or Comp Coag web page	14.50	Comparative Coagulation	M-F	same day	citrate plasma	plastic or siliconized glass tube in styrofoam box	Refrigerate. Ship in insulated container with ice pack.
Arsenic, blood/water/urine  Quantitative arsenic concentration in fluid samples. Cannot analyze in plasma or serum - Need whole blood. Do not use heparin tubes (gel tubes). Whole blood should not be clotted. Contact Lab for specifics for avian and very small animals	40.00 /sample	Toxicology	M-F	3 business days	1) whole blood; 2) urine; 3) water	1) Heparinized or EDTA tube; 2) urine in sterile container	1-2) Refrigerate. Ship in insulated container with ice pack.
Arsenic, tissue/feed Quantitative arsenic concentration in tissue or feed.	35.00 /sample	Toxicology	M-F	5 business days	1) tissue; 2) feed	1) sterile container; 2) any container	1) Refrigerate; 2) none

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Aspartate Aminotransferase (AST)	8.50 /sample (blood, fluid)	Clinical Pathology	M-Sa	1-2 days	1) 1 mL separated serum or heparinized plasma; 2) fluid	Red top (non-anticoagulant) or green top (heparin) tube	Refrigerate. Ship overnight in insulated container with freezer packs.
Aspartate Aminotransferase (AST), urine	16.50	Clinical Pathology	M-Sa	1-2 days	1 mL urine	plain glass or plastic tube	Refrigerate. Ship in insulated container with ice pack.
Bacterial General ID quantitative counts for milk, teat dip and water	20.00 /sample; Out of state price - \$25.00	Quality Milk Production Services	M - F	2 days	10-50 gms milk, water, teat dip	clean, sealed container	Freeze
Bacterial ID  For the identification of pure bacterial isolates. Charges are assessed PER ISOLATE submitted. Please ensure purity before shipment. Submissions accepted from Laboratories only. Follow all biohazard shipping regulations. Please provide animal history and suspected identification of isolate if possible.	40.00 /isolate	Bacteriology	M-F	2-7 days	Bacterial isolate (pure culture)	Agar slant or plate (sealed) or Amies transport media (swab)	Refrigerate. Ship in insulated container with ice pack.
Baermann Fecal Technique  A modification of the Berlese Apparatus used to retrieve nematode such as lungworm, larvae from feces. The Baermann Technique is not recommended as a primary diagnostic technique for evaluation of parasites in feces. It is not useful for those nematode larvae that do not leave the feces or other biological material, or for detection of parasite eggs or cysts that may be in the fecal sample. Some lungworm larvae are retrieved using this technique, but some larvae such as those of <i>Filaroides hirthi</i> , <i>Filaroides osleri</i> , <i>Strongyloides</i> sp. and <i>Dictyocaulus</i> sp. are better recovered using flotation techniques. Lungworms, such as <i>Eucolus</i> ( <i>Capillaria</i> ) <i>aerophilus</i> , that do not produce larvae are detected only by using flotation methods as well. Any fecal sample submitted for this procedure must be freshly voided so that the sample is not contaminated by free-living nematodes. It is strongly recommended to use a fecal flotation technique when lungworms are suspected.	25.00	Parasitology	M-F	2-3 days	15g fresh fecal sample (~1/2 cup)	Plastic leakproof container	Refrigerate. Ship in insulated container with ice pack.
Basic-Extracted Drugs  (including but not limited to): Acepromazine, Amphetamine, Apomorphine, Atropine, Benzocaine, Brompheniramine, Brucine, Bupivacaine, Caffeine, Cimetidine (Tagamet), Chlorpromazine, Cocaine, Codeine, Cyproheptadine, Dextromethorphan, Diazepam, Dihydrocodeine, Dipyrone, Doxapram, Embutramide, Ephedrine, Griseofulvin, Hordenine, Hydrocodone, Ketamine, Lidocaine, Mepivacaine, Meprobamate, Methocarbamol, Methylphenidate, Methamphetamine, Metoclopramide, Pentazocine, Phenacetin, Phentothiazine, Procaine, Promazine, Phenylpropanolamine, Propoxyphene, Pyrilamine, Rantidine (Zantac), Strychnine, Tetracaine, Theobromine, Theophylline, Trimethoprim, Tropicamide, Xylazine For more information, see Appendix B. \$25.00 will be added for STAT processing.	70.00 /sample; plus \$25 for STAT	Toxicology	M-F	2 days	1) 4 ml heparinized (preferred) or EDTA plasma or serum; OR 2) 10 ml heparinized (preferred) or EDTA whole blood; OR 3) 50 ml urine	Heparinized tube(s), no gel clot; or red top tube with transferred heparinized plasma, labeled accordingly. Less ideal: red top tube with transferred serum or EDTA plasma OR red top/lavender top tube(s) with whole blood OR urine in leak-proof container	1-3) Refrigerate. Ship for next day delivery in insulated container with freezer pack(s)
Beta-Hydroxybutyrate (BHBA)  See Eclinpath for more information	13.00	Clinical Pathology	M-Sa	1-2 days	1 mL separated serum, EDTA plasma, or heparinized plasma	Red top (non-anticoagulant), green top (heparin) tube, or purple top (EDTA tube)	Refrigerate. Ship overnight in insulated container with freezer pack.
Bethesda Unit Assay  Bethesda units/mL; measure of factor inhibitory activity Ship Overnight. For additional info see Submission Guidelines or Comp Coag web page	52.00	Comparative Coagulation	M	1 wk	citrate plasma	plastic or siliconized glass tube in styrofoam box	Refrigerate. Ship in insulated container with ice pack.
Bicarbonate  See Eclinpath for more information	9.00 /sample (blood, fluid)	Clinical Pathology	M-Sa	1-2 days	1) 1 mL separated serum or heparinized plasma; 2) fluid	Red top (non-anticoagulant) or green top (heparin) tube	Refrigerate. Ship overnight in insulated container with freezer packs.
Bile Acids, Fasting Panel  Fasting Panel Clearly mark "Fasting" on sample. Lipemia (falsely increases) and hemolysis (falsely decreases) interfere with bile acid measurement through optical interference. Efforts should be made to minimize these (by not feeding too large a meal and by separating serum from cells as soon as possible). See Eclinpath for more information	24.00 /sample	Clinical Pathology	M-Sa	1-2 days	1 - 2 mL separated serum, each sample	Red top (non-anticoagulant) tube	Refrigerate. Ship overnight in insulated container with freezer packs.

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Bile Acids, Post-Prandial Panel  Post-Prandial Panel	24.00 /sample	Clinical Pathology	M-Sa	1-2 days	1 - 2 mL separated serum, each sample	plain glass or plastic tube	Refrigerate. Ship overnight in insulated container with freezer packs.
Bile Acids, Random Panel  Lipemia (falsely increases) and hemolysis (falsely decreases) interfere with bile acid measurement through optical interference. Efforts should be made to minimize these (by not feeding too large a meal and by separating serum from cells as soon as possible).	24.00 /sample	Clinical Pathology	M-Sa	1-2 days	1 - 2 mL separated serum, each sample	Red top (non-anticoagulant) tube	Refrigerate. Ship overnight in insulated container with freezer packs.
Bilirubin Panel (total, direct, indirect)  Includes Total, direct, and indirect bilirubin. See Eclinpath for more information	17.00	Clinical Pathology	M-Sa	1-2 days	1 mL separated serum or heparinized plasma	Red top (non-anticoagulant) or green top (heparin) tube	Refrigerate. Ship in insulated container with ice pack.
Bilirubin, Total  See Eclinpath for more information	8.50 /sample	Clinical Pathology	M-Sa	1-2 days	1) 1 mL separated serum or heparinized plasma; 2) fluid;	Red top (non-anticoagulant) or green top (heparin) tube	Refrigerate. Ship overnight in insulated container with freezer packs
Blood Culture, Aerobic  For the isolation of aerobic bacteria in blood. Blood culture medium should be inoculated immediately when blood is drawn. See <a href="https://ahdc.vet.cornell.edu/docs/Blood_Culture_Technique.pdf">https://ahdc.vet.cornell.edu/docs/Blood_Culture_Technique.pdf</a> for instructions. If the blood culture media used is not the VersaTrek EZ® Draw® REDOX 1® product, turn around time may be delayed due to inability to take full advantage of enhanced incubation characteristics of the VersaTrek® incubator system. See TREK Diagnostic Systems. The media is available from our diagnostic supply center. Submissions of 3 consecutive draws are recommended. Antimicrobial Susceptibility (MIC) are not included in the fee. See also Foal Diarrhea/Septicemia Kit. *May qualify for New York State contract pricing.	30.00 /sample	Bacteriology	M-F	5-10 days	Whole blood in blood culture medium	40 ml VersaTrek EZ® Draw® REDOX 1® aerobic blood culture bottle	Do NOT Refrigerate
Blood Culture, Anaerobic  For the isolation of anaerobic bacteria in blood. Blood culture medium should be inoculated immediately when blood is drawn. See <a href="https://ahdc.vet.cornell.edu/docs/Blood_Culture_Technique.pdf">https://ahdc.vet.cornell.edu/docs/Blood_Culture_Technique.pdf</a> for instructions. If the blood culture media used is not the VersaTrek EZ® Draw® REDOX 2® product, turn around time may be delayed due to inability to take full advantage of enhanced incubation characteristics of the VersaTrek® incubator system. See TREK Diagnostic Systems. The media is available from our diagnostic supply center. Submissions of 3 consecutive draws are recommended. Antimicrobial Susceptibility (MIC) are not included in the fee. See also Foal Diarrhea/Septicemia Kit. *May qualify for New York State contract pricing.	30.00 /sample	Bacteriology	M-F	5-10 days	Whole blood	40 ml VersaTrek EZ® Draw® REDOX 2® anaerobic blood culture bottle	Do NOT Refrigerate
Blood Smear Evaluation  RBC (morphology, parasites), manual differential cell count, WBC, Plate smear est. Do not allow coolant to come in contact with specimen or slides; ship overnight. For additional info on Clin Path panels For instructions on making blood smears see <a href="https://ahdc.vet.cornell.edu/Sects/ClinPath/sample/test/hema.cfm#Bloodsmear">https://ahdc.vet.cornell.edu/Sects/ClinPath/sample/test/hema.cfm#Bloodsmear</a>	17.00	Clinical Pathology	M-Sa	1-2 days	1) EDTA blood (> 1/2 full) AND 2) 2 dry (unfixed, unstained) blood smears	1) lavender top tube; 2) frosted-end slides	Refrigerate blood; ship in insulated container with freezer pack for next day delivery. Hold slides at room temperature; protect from chilling/coolant by insulating separately during shipment.
Bluetongue Virus (BTV) AGID  Agarose gel immuno-diffusion. Acceptable species: Ruminant Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze.	6.25 /sample	Virology	M-Th	2-4 days	1 ml serum, plasma is not an acceptable sample for this test	red top blood collection tube	It is recommended to ship samples with an ice pack.

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Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Bluetongue Virus (BTV) c-ELISA  Enzyme linked Immuno- assay. Acceptable species: Ruminant Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze.	6.25 /sample	Virology	Tu, Fr	2-4 days	1 ml serum, plasma is not an acceptable sample for this test	red top blood collection tube	It is recommended to ship samples with an ice pack.
Bone Marrow Cytology  Report includes – Specimen type and site (provided by submitter), Smear description (overall cellularity, assessment of all hematopoietic lineages, other cellular components and marrow iron by Prussian blue staining), Smear interpretation. Interpretation of bone marrow smears requires a recent CBC (within 24-48 hours). All bone marrow samples without a recent CBC should be accompanied by an EDTA blood sample with 2 blood smears and a CBC should be requested (use 'Other diagnostic tests requested' field to the right of the Clinical Summary field to request a CBC). Do not allow coolant to come in contact with specimen; ship overnight. STAT service available for same day results (extra charges apply). For additional information see Cytology Testing For instructions on making blood smears see <a href="https://ahdc.vet.cornell.edu/Sects/ClinPath/sample/test/hema.cfm#Bloodsmear">https://ahdc.vet.cornell.edu/Sects/ClinPath/sample/test/hema.cfm#Bloodsmear</a>	60.00	Clinical Pathology	M - F	1 business day	1) At least 4-10 dry (unfixed, unstained) bone marrow smears	1) Frosted-end slides	Hold at room temperature; DO NOT refrigerate smears; protect from chilling during shipment with insulation.
Bovine Abortion Serology Panel  Tests included in this panel are: Bovine Virus Diarrhea Virus (BVDV) SN, Type 1; Brucella card agglutination; Infectious Bovine Rhinotracheitis (IBR) (BHV-1) kinetic ELISA; Leptospira MAT, 5 standard serovars; Neospora IFA. Bovine abortion Serology Plan Selenium on maternal EDTA whole blood should be ordered separately using test code XBASPS. When acute and convalescent samples are/will be collected, for most serology assays they should always be tested in parallel, and paired results interpreted. If acute samples are submitted alone please indicated if all tests should be performed. If second, convalescent samples are later submitted, tests on both samples will be run in parallel and fees for both samples will be charged. To avoid testing acute samples twice, hold and submit with convalescent samples. If convalescent samples will not be collected, or when infectious abortion is strongly suspected due to history, immediate testing of acute sample may be warranted. For more information, please see Bovine Diagnostic Plans/Panels.	61.50 per single sample	Multiple Sections			Maternal serum	red top blood collection tube	ship chilled
Bovine Abortion Serology Panel + Selenium  This Panel includes: Bovine Virus Diarrhea Virus Type 1 serum neutralization, Brucella card agglutination, Infectious Bovine Rhinotracheitis (IBR,BHV-1) kinetic ELISA, Leptospira MAT 5 standard serovars, Neospora IFA and whole blood Selenium.	89.50	Multiple Sections	M-F	5-9 days	Maternal serum (separated) and maternal EDTA whole blood (LTT)	Red top and lavender top blood collection tubes	Refrigerate. Ship in insulated container with ice packs.
Bovine Abortion Virus Isolation  Includes: BVDV, BHV-1 + Unknowns	70.00 /animal	Virology	M-F	21-30 days, s	1) Placenta; 2) Fetal tissues (Lung, kidney, liver, adrenal, spleen)	Sealable plastic bag or container	Ship in insulated container with ice packs
Bovine Adenovirus FA  Fluorescent antibody Nasal or pharyngeal swabs are only appropriate for virus isolation	25.00 /animal	Virology	M-F	2-4 days	1) Tracheal wash, broncho-alveolar lavage; 2) Upper airway tissue, lung	1) Leakproof container; 2) Sealable plastic bag or container	Ship in insulated container with ice packs.
Bovine Coronavirus (BCV) FA  Flourescent antibody If Viral Transport media is unavailable, put swabs into a red top tube with a few drops of saline.	25.00 /animal	Virology	M-F	2-4 days	1) Ileum, jejunum, cecum; 2) Nasal swab, pharyngeal swab; 3) Tracheal wash, broncho-alveolar lavage; 4) Upper airway tissue, lung	1) Sealable plastic bags or container; 2) Swabs in Viral Transport medium; 3) Leakproof container; 4) Sealable plastic bag or container	Ship in insulated container with ice packs.
Bovine Coronavirus PCR  The beta coronavirus PCR employed by the AHDC will detect canine respiratory coronavirus, camelid enteric coronavirus, equine enteric coronavirus and the respiratory and enteric coronaviruses of cattle. Submit swabs in sterile, sealed vials with several drops of saline added, to prevent desiccation. Bacterial transport media are not appropriate for PCR assays. If culture is desired, submit a separate swab in an acceptable bacterial transport media. Cotton, plastic, wood-handled, and Dacron and other synthetic swabs are all acceptable for PCR-based assays. Calcium alginate swabs should be avoided. This service is performed pursuant to an agreement with Roche Molecular Systems.	36.75	Molecular Diagnostics	M-F as needed	3-5 days	1) Feces; 2) Fecal swab 3) Intestinal tissue 4) Nasal swab; 5) Lung tissue	1) unbreakable leak-proof container; 2) Red top tube; 3) leakproof container; 4) Red top tube, 5) Leakproof container	Refrigerate
Bovine Diarrhea, Adult (Acute) Diagnostic Plan  Tests included in this Plan are: Beta Coronavirus PCR, Bovine Virus Diarrhea Virus Isolation, Quantitative Fecal Analysis, Johne's Fecal PCR, Salmonella Culture. Antibiotic susceptibility is not included in the plan.	153.75	Multiple Sections	M-F	Up to 30 days	(1) Fresh Feces (20 g) AND (2) EDTA whole blood (LTT).	(1) leak-proof container and ParaPak® transport media; AND (2) lavender top blood collection tube	Refrigerate and ship in insulated container with ice packs

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Bovine Diarrhea, Adult (Chronic) Diagnostic Plan	89.25	Multiple Sections	M-F	7-10 days	Re 1) Fresh feces in leak-proof container (20 g) AND 2) Serum (separated) or ear notch.	1) leak-proof container and ParaPak® transport media to assist with Salmonella recovery; 2) Red top blood collection tube or sterile container	Refrigerate. Ship in insulated container with ice pack.
Testing included in plan are: Bovine Diarrhea Virus Antigen Capture ELISA, Quantitative Fecal Analysis, Johne's Fecal PCR, Salmonella Culture							
Bovine Herpesvirus-1 (BHV-1) (IBR) FA	25.00 /animal	Virology	M-F	2-4 days	1)Tracheal wash, broncho-alveolar lavage; 2) Lung tissue; 3) Fetal tissues (Lung, liver, kidney, spleen, adrenal; 4) Placenta	1) Leakproof container; 2,3,4) Sealable plastic bag or container	Ship in insulated container with ice packs.
Fluorescent antibody Nasal or pharyngeal swabs are only appropriate for virus isolation and PCR							
Bovine Herpesvirus-1 (BHV-1) (IBR) Virus Isolation	70.00 /animal	Virology	M-F	21-30 days	s 1) Nasal swab, pharyngeal swab; 2) Tracheal wash, broncho-alveolar lavage; 3) Lung tissue; 4) Fetal tissues (Lung, liver, kidney, spleen, adrenal; 5) Placenta	1) Swabs in Viral Transport Medium; 2) Leakproof container; 3, 4, 5) Sealable plastic bag or container	Freezer Packs
Virus Isolation If viral transport media is unavailable, put swabs in a red top tube with a few drops of saline.							
Bovine Herpesvirus-2 (BHV-2) (Mammitis) FA	25.00 /animal	Virology	M-F	2-4 days	1) Fresh skin, teat or udder lesions	1) Tissue in a few drops of saline in leakproof container, or in Viral Transport Medium	Ship in insulated container with ice packs.
Flourescent antibody							
Bovine Herpesvirus-2 (BHV-2) (Mammitis) IFA	16.50	Virology	M-F	3 days	1 mL serum	red top blood collection tube	It is recommended to ship samples with an ice pack.
Indirect fluorescent antibody Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze.							
Bovine Herpesvirus-2 (BHV-2) (Mammitis) Isolation	70.00 /animal	Virology	M-F	21-30 days	s 1) Fresh skin, teat or udder lesions; 2) Vesical fluids	1) Viral transport medium; 2) Undiluted in sterile tube	Ship in insulated container with ice packs.
Virus Isolation Swabs in bacterial transport medium are not appropriate for virus isolation or PCR testing.							
Bovine Herpesvirus-2 (Mamm) SN	16.50 /sample	Virology	As needed	5-9 days	2 mL serum	red top blood collection tube	It is recommended to ship samples with an ice pack.
Serum Neutralization Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze.							
Bovine Herpesvirus-4 (BHV-4) IFA (DN-599)	16.50 /sample	Virology	M-F	3 days	2 mL serum	red top blood collection tube	It is recommended to ship samples with an ice pack.
Indirect fluorescent antibody Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze.							
Bovine Herpesvirus-4 (BHV-4) SN (DN-599)	16.50	Virology	As needed	8 days	2 mL serum	red top blood collection tube	It is recommended to ship samples with an ice pack.
Serum Neutralization Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze.							
Bovine Leukosis Virus (BLV) AGID	6.00	Virology	M-Th	2-4 days	1 mL serum or plasma	red top blood collection tube	It is recommended to ship samples with an ice pack.
Agarose gel immuno-diffusion. Acceptable species: Bovine This test is maintained for regulatory/export testing purposes or to assist in evaluating potential false positive results on other testing. The default test used at the AHDC for Bovine Leukosis Virus serology testing in cows is the Bovine Leukosis Virus ELISA test. Accessions requesting this AGID test must provide the reason for selecting the AGID test or they will automatically be tested using the ELISA assay. Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze.							
Bovine Leukosis Virus (BLV) ELISA	6.00	Virology	2x/wk	2-4 days	1 ml serum, plasma is not an acceptable sample for this test	red top blood collection tube	It is recommended to ship samples with an ice pack.
Enzyme linked Immuno-assay. Acceptable species: Bovine Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze.							

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Bovine Metabolic Panel BHBA, NEFA, UN, Albumin, AST, Cholesterol, Triglycerides Includes NEFA, BHBA, AST, ALB, and BUN; for additional info see Clin Path panels	30.50	Clinical Pathology	M-Sa	1-2 days	2 mL separated serum	plain glass or plastic tube	Refrigerate
Bovine Papular Stomatitis Virus IFA Indirect fluorescent antibody Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze.	16.50 /sample	Virology	M-F	3-9 days	2 mL serum	red top blood collection tube	It is recommended to ship samples with an ice pack.
Bovine Parainfluenza-3 (BPIV-3) Virus FA Fluorescent antibody Nasal or pharyngeal swabs are only appropriate for virus isolation	25.00 /animal	Virology	M-F	2-4 days	1) Tracheal wash, broncho-alveolar lavage; 2) Upper airway tissue, lung	1) Leakproof container; 2) Sealable plastic bag or container	Freezer Packs
Bovine Parainfluenza-3 (BPIV-3) Virus Isolation Virus Isolation If viral transport media is unavailable, put swabs in a red top tube with a few drops of saline.	70.00 /animal	Virology	M-F	21-30 days, s	1) Nasal swab, pharyngeal swab; 2) Tracheal wash, broncho-alveolar lavage; 3) Upper airway tissue, lung	1) Swabs in Viral Transport Medium; 2) Leakproof container; 3) Sealable plastic bag or container	Freezer Packs
Bovine Parainfluenza-3 (BPIV-3) Virus SN Serum neutralization Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze.	14.50 sample	Virology	F	10-14 days	1 ml serum	red top blood collection tube	It is recommended to ship samples with an ice pack.
Bovine Parvovirus FA Fluorescent antibody	25.00 /animal	Virology	M-F	2-4 days	Fresh jejunum, ileum	Sealable plastic bag or container	Ship in insulated container with ice packs.
Bovine Pinkeye Diagnostic Plan Tests included are: Aerobic culture (1 sensitivity included); Bovine Herpesvirus-1 (BHV-1) (Infectious Bovine Rhinotracheitis) FA; Mycoplasma culture	120.00 price	Multiple Sections			1) Conjunctival swab in aerobic transport media (Amies w/out charcoal) and 2) Conjunctival scraping on glass slide and air dried	1) Amies transport media w/out charcoal; 2) glass slide in slide holder	1) Ship swab chilled; 2) Slide at room temperature.
Bovine Respir Syncytial Virus (BRSV) FA Fluorescent antibody Nasal or pharyngeal swabs are only appropriate for virus isolation	25.00 /animal	Virology	M-F	2-4 days	1) Tracheal wash, broncho-alveolar lavage; 2) Upper airway tissue, lung	1) Leakproof container; 2) Sealable plastic bag or container	Ship in insulated container with ice packs.
Bovine Respir Syncytial Virus (BRSV) SN Serum neutralization Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze.	14.50 /sample	Virology	W	5-9 days	1 mL serum	red top blood collection tube	It is recommended to ship samples with an ice pack.
Bovine Respiratory Disease Virus Isolation Includes: BRSV, BHV-1, BPIV-3, BVDV, BCoV, Bov. Adeno + Unknowns Swabs in bacterial transport medium are not appropriate for virus isolation or PCR testing.	70.00 /animal	Virology	M-F	21-30 days, s	1) Nasal swab, pharyngeal swab; 2) Tracheal wash, broncho-alveolar lavage; 3) Upper airway tissue, lung	1) Swabs in Viral Transport Medium; 2) Leakproof container; 3) Sealable plastic bag or container	Ship in insulated containers with ice packs
Bovine Respiratory Syncytial virus PCR This assay detects nucleic acid or the genetic material of the virus	36.75	Molecular Diagnostics	M - F	3 - 5 days	Nasal swab, trans-tracheal wash, lung, trachea	Red top tube with saline or leak proof screw top container	Refrigerate
Bovine Rotavirus FA Fluorescent antibody	25.00 /animal	Virology	M-F	2-4 days	Fresh small intestine	Sealable plastic bag or container	Ship in insulated container with ice packs.



## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Bovine Rotavirus real-time PCR	36.75	Molecular Diagnostics	M-F	3-5 days	Feces or intestinal tissue	Sealed vial in a secondary container	Refrigerate. Ship in insulated container with ice pack.
This test is intended primarily for research applications at this time. Please contact the lab for volume discounts.							
Bovine Virus Diarrhea Virus (BVDV) Ag Capture ELISA (ACE)	5.50 /sample	Virology	2x/wk	2-4 days	NO POOLED SAMPLES OF ANY KIND 1) 1 mL serum, must be at least 61 days old; 2) milk, any age; 3) fresh ear-notch/skin biopsy (i.e., NOT fixed), any age. Acceptable species: Bovine	1) red top blood collection tube (serum); 2,3) plastic or glass tubes	1) No coolant; 2,3) Ship in insulated container with ice packs.
Antigen Capture ELISA The current ACE test has been validated for use with 1mm diameter ear punch samples in addition to the standard large biopsy specimens. However, the volume of sample buffer must be restricted to 0.25 ml with the small specimens as compared to the volume (2 ml) for the standard skin biopsies. If you are planning to submit small biopsy specimens, contact the lab for instructions. Small biopsies submitted in 2 ml buffer volumes must be rejected for testing and there will be no exceptions. If you have any doubt about the acceptability of the sample size, remove the sample buffer from the AHDC sample tubes and submit the sample in the dry tube. An additional processing fee of \$1.00/sample will be charged for ear notch samples that are not submitted in a container that can be directly used to conduct the test. The AHDC does supply collection tubes at cost. See suitable collection containers below. Ear notches placed in plastic bags are not acceptable for processing for the test. As with all tests for PI animals, the ACE test will occasionally detect an acutely infected animal. Accordingly, all test positive animals should be retested > 2 weeks from the initial sampling to verify PI status. The AHDC will continue to offer these retests at no charge if we tested the previous sample. For more information on BVD testing in cattle, please see the fact sheet, Testing Options for Detection of Individual Bovine Virus Diarrhea Persistently Infected (BVD PI) Animals.							
Bovine Virus Diarrhea Virus (BVDV) Bulk Tank Milk PCR	63.00	Molecular Diagnostics	M-F as needed	10-14 days	bulk tank milk: see comment (min. 200 mL)	unbreakable, leak-proof container	Refrigerate. Ship in insulated container with ice pack. DO NOT freeze
Includes BVD PCR and BVD virus isolation Ship Overnight -- do not freeze! Arrange for M-Th delivery -- maximum 400 animals. For more information see Bulk Milk Tank Testing for the Detection of BVD Persistently Infected Cows. This service is performed pursuant to an agreement with Roche Molecular Systems.							
Bovine Virus Diarrhea Virus (BVDV) FA	25.00 /animal/virus	Virology	M-F	2-4 days	1) Fresh esophagus, Peyer's patch, mesenteric lymph nodes; 2) Fetal tissues (lung, kidney, heart, spleen); 3) Placenta	Sealable plastic bag or container	Ship in insulated container with ice packs.
Fluorescent antibody. Detects BVDV types 1 and 2							
Bovine Virus Diarrhea Virus (BVDV) Genotyping	63.00	Molecular Diagnostics	M-F as needed	5 - 7 days	1) EDTA blood (min. 5 mL); 2) serum, plasma, or isolate in cell culture (min. 2 mL); 3) milk (min. 50 mL individual cow	Unbreakable, leak-proof container	Refrigerate. Ship in insulated container with ice pack. DO NOT freeze
Ship Overnight - Do not freeze! Contact laboratory with questions.							
Bovine Virus Diarrhea Virus (BVDV) Isolation	70.00 /animal	Virology	M-F	21-30 days, s	1) Fresh tissue lesions, esophogus, mesentary lymph nodes, Peyer's patches, spleen, kidney; 2) Fetal tissues, (lung, kidney, heart, spleen); 3) Whole blood	1) Sealable plastic bag or container; 2) Sealable plastic bag or container; 3) Purple top EDTA blood tube	Ship in insulated container with ice packs.
Virus isolation. Detects BVDV types 1 and 2 Swabs in bacterial transport medium are not appropriate for virus isolation or PCR testing.							
Bovine Virus Diarrhea Virus (BVDV) PCR	36.75	Molecular Diagnostics	M-F as needed	3-5 days	1) EDTA blood, plasma, serum (min. 2 mL): see comment for age limitations; 2) tissue (min. 5 g); 3) milk (min. 50 mL individual cow NOTE: see comment regarding POOLED BVD PCR testing on multiple blood samples	unbreakable, leak-proof container	Refrigerate. Ship in insulated container with ice pack. DO NOT freeze
Preferred test on whole blood for acute BVD illness; also used for herd screening for BVD PI For animals less than 61 days old, EDTA whole blood is required! POOLED BVD PCR testing will be done - if appropriate - on multiple blood samples submitted for detection of BVDV Persistently Infected (PI) animals unless INDIVIDUAL BVD PCR is indicated. For additional info on pooling, see Appendix I: Pooled Samples for BVD PCR. See also samples for Cattle and samples for Camelids. STAT testing is available. Please see Molecular Diagnostic STAT policy This service is performed pursuant to an agreement with Roche Molecular Systems.							
Bovine Virus Diarrhea Virus (BVDV) Serum Isolation	22.00 /animal	Virology	M-F	10 days	2 mL serum	red top blood collection tube	Refrigerate. Ship in insulated container with ice pack
Virus Isolation							
Bovine Virus Diarrhea Virus (BVDV) SN, Type 1	14.50 /sample	Virology	M, Th	5-9 days	1 mL serum	red top blood collection tube	It is recommended to ship samples with an ice pack.
Serum neutralization, BVDV type 1 Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze. Paired serum samples are recommended for optimal diagnostic test interpretation.							

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\* Each accession received will be charged a \$5.00 accessioning fee, in addition to the requested testing. Fees are subject to change without notice, please call the lab if you have any questions. Contract pricing available. For information please refer to <https://ahdc.vet.cornell.edu/billing/contract.cfm>  
\*\* "Lag Time" is counted in business days, unless otherwise specified, from the day the specimen arrives until the day the test result is reported, assuming there are no complications with testing.

Page 9 of 41

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Bovine Virus Diarrhea Virus (BVDV) SN, Type 2 Serum neutralization, BVDV type 2 Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze. Paired serum samples are recommended for optimal diagnostic test interpretation.	14.50 sample	Virology	M, Th	5-9 days	1 mL serum	red top blood collection tube	It is recommended to ship samples with an ice pack.
Bovine Virus Diarrhea Virus (BVDV) Whole Blood Isolation Virus Isolation For acute disease or to test calves less than 3 months. This test can be used for detection of individual BVD Persistently Infected (PI) animals. See also testing options for BVD Persistently Infected Cattle and Camelids	27.50	Virology	M-F	14 days	5 ml EDTA whole blood	lavender top tube	Refrigerate, ship in insulated container with ice pack
Bronchoalveolar Lavage Count Cytology (smear exam and count: 56.00 Report includes - Specimen type and site (provided by submitter), Volume, Color, Turbidity, Nucleated cell count, RBC count, Smear type, Smear description, Smear Interpretation, respiratory Please also submit 2-3 freshly prepared smears of the BAL fluid and specify smear type, i.e. direct or sediment, on the smears and on the cytology submission form. Do not allow coolant to come in contact with specimen; ship overnight. STAT service available for same day results (extra charges apply). For additional information see Cytology Testing	56.00	Clinical Pathology	M - F	1 business day	1) BAL fluid in EDTA AND 2) Smears (at least 2-3 unstained smears preferred); 3) Also submit a red-top tube if culture is anticipated	1) Lavender-top tube; (+/- red-top tube); 2) Frosted-end slides	Refrigerate. Ship in insulated container with freezer pack for next day delivery. Hold slides at room temperature; protect slides from chilling/coolant by insulating separately during shipment.
Bronchoalveolar Lavage Cytology (smear exam only) Report includes - Specimen type and site (provided by submitter), Smear type, Smear description, Smear Interpretation With fluid samples of BAL, please also submit 2-3 freshly prepared smears and specify smear type, i.e. direct or sediment, on the smears and on the cytology submission form. Do not allow coolant to come in contact with specimen; ship overnight. STAT service available for same day results (extra charges apply). For additional information see Cytology Testing	48.00	Clinical Pathology	M - F	1 business day	1) Smears (at least 2-3 unstained smears preferred); and/or 2) BAL fluid in EDTA (no cell counts provided); 3) Also submit a red-top tube if culture is anticipated.	1) Lavender-top tube; (+/- red-top tube); 2) Frosted-end slides	Refrigerate fluids only. Ship in insulated container with freezer pack for next day delivery. Hold slides/smears at room temperature; protect from chilling/coolant by insulating separately during shipment
Bronchodilators (Clenbuterol, Albuterol, Turbutaline) Samples arriving at AHDC between October 27 and December 15 will be forwarded to a referral lab for analysis.	165.50 per hour	Toxicology	M-F	1-3 days	1) 10 mL heparinized whole blood; 2) 25 - 50 mL urine	1) Heparinized tube, no gel clot; 2) sterile, leak-proof container	Refrigerate. Ship in insulated container with ice pack.
Brucella abortus CF Complement fixation. Acceptable species: Bovine and Swine Performed when required for export or regulatory program; overnight fixation Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze.	11.00 /sample	Virology	T, Th	3-7 days	1) 1 mL serum	1-2) red top blood collection tube	Refrigerate. Ship in insulated container with ice pack.
Brucella Card Agglutination Non-canine This test will not reliably detect Brucella ovis, Brucella mellitensis, Brucella canis, or Brucella suis. It is intended as a screening test for the detection of antibodies against Brucella abortus.	3.50 /animal	Brucellosis	M-F	1-4 days	1) 2 mL serum; 2) clotted whole blood	1-2) red top blood collection tube	Refrigerate. Ship in insulated container with ice pack.
Brucella Culture, non-canine For the isolation of Brucella species only. *May qualify for New York State contract pricing. Antimicrobial susceptibilities are not applicable. Refer to Brucella canis Culture for canine submissions.	25.00 /sample	Bacteriology	M-F	5-14 days	Affected tissue, lesion or fluid aspirate	Amies transport media (swab) or sealed sterile containers	Refrigerate. Ship in insulated container with ice pack.

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Brucella Plate Agglutination  Non-canine When required for export or emergencies ONLY	25.00 /sample	Brucellosis	M-F	1-6 days	1) 2 mL serum; 2) clotted whole blood	1-2) red top blood collection tube	Refrigerate. Ship in insulated container with ice pack.
Brucella Tube Agglutination  Non-canine 48-hour incubation; to meet export, bull stud, and interstate shipping requirements; NOT FOR CLINICAL APPLICATIONS. For canines, see "Canine Brucella" in the Bacteriology section	6.50 /animal	Brucellosis	M-W	2-7 days	1) 2 mL serum; 2) clotted whole blood	1-2) red top blood collection tube	Refrigerate. Ship in insulated container with ice pack.
Bulk Milk Aerobic Culture  no preservative	15.00 in state; \$20.00 out of state.	Quality Milk Production Services	M-F	48 hours	1-15 ml Milk or Water	Clean, sealed container	Refrigerate or freeze sample. Ship in insulated container with ice pack.
Cadmium (Atomic Absorption Spectroscopy - Graphite Furnace)	35.00	Toxicology	M-F	3 days	1) 2g tissue; 2) 100g feed	1) sterile container; 2) any container	1) Refrigerate; 2) none
Calcium  Measures total calcium in serum, plasma and fluids. See Eclinpath for more information	11.00 /sample (blood, fluid)	Clinical Pathology	M-Sa	1-2 days	1) 1 mL separated serum or heparinized plasma; 2) fluid	Red top (non-anticoagulant) or green top (heparin) tube	Refrigerate. Ship overnight in insulated container with freezer packs
Calcium, urine  Measures total calcium levels in urine.	17.00	Clinical Pathology	M-Sa	1-2 days	1 mL urine	Red top (non-anticoagulant) tube or plastic leakproof container	Refrigerate. Ship overnight in insulated container with freezer packs.
Campylobacter fetus Culture THIS TEST HAS BEEN DISCONTINUED. PLEASE SEE COMMENT ABOVE Recent data has shown a dramatic shift among the species of Campylobacter involved in small ruminant abortion cases. Increases have been documented in the incidence of Campylobacter jejuni abortions with research showing that it has now replaced Campylobacter fetus subsp. fetus as the predominant cause of sheep abortions in the United States. We will continue to offer fluorescent antibody (FA) testing for Campylobacter fetus subsp. fetus (CAMPFA), however the culture will be discontinued and replaced with Campy jejuni culture (CAMPYJ)	0.00 /sample	Bacteriology					
Campylobacter fetus FA  For the detection of Campylobacter fetus in ruminants by fluorescent antibody stain. May qualify for New York State contract pricing. Please consider using the: Ovine Abortion Plan, Caprine Abortion Plan or Camelid Abortion Plan for abortion submissions. **This test is only for diagnostic purposes and is not available for Regulatory testing requirements (refer to Campylobacter fetus Culture). Samples must be submitted and received in the laboratory within 6-8 hours of collection and placed in an insulated container under refrigerated conditions and protected from light during transport. Submissions not fulfilling these requirements will not be tested. Lactated Ringer's solution is available for purchase. See also collection instructions for bulls and cows. ***Abortion samples should be refrigerated immediately and submitted to the laboratory within 24 hours, preferably same day whenever possible. Detection of Campylobacter fetus 24 hours or more post mortem may not be possible.	16.00 /sample	Bacteriology	Tuesday and 3-4 days Friday	1) Bovine preputial wash, vaginal wash, or cervical mucus**; 2) Caprine, Ovine, Camelid fetal liver, placenta/cotyledon or abomasal contents***	1) Lactated Ringer's Solution (see Comment**); 2) Separate sealed containers (sterile preferred), red-top tube for abomasal content	1) Refrigerate and deliver same day as collection in insulated container with ice packs - do not freeze; 2) Refrigerate and deliver same day or ship overnight in insulated container with ice packs	
Campylobacter jejuni Culture  For the isolation of Campylobacter jejuni. Test is also part of the Enteric Panel 2 and Enteric Panel 3. Antimicrobial susceptibilities are not applicable. Recent data has shown a dramatic shift among the species of Campylobacter involved in small ruminant and camelid abortion cases. Increases have been documented in the incidence of Campylobacter jejuni abortions with research showing that it has now replaced Campylobacter fetus subsp. fetus as the predominant cause of sheep abortions in the United States. We will continue to offer fluorescent antibody (FA) testing for Campylobacter fetus subsp. fetus, however the culture has been discontinued and replaced with Campylobacter jejuni culture.	25.00 /sample	Bacteriology	M-S	3-5 days	1) Fresh feces or intestinal contents; 2) ligated loop of intestine; 3) Placenta (preferred) or fetal liver for small ruminant and camelid abortion cases; 4) Swab of 1 or 2	1-3) Sealed sterile separate containers (sterile preferred); 4) Swab in Amies transport media (w/charcoal preferred)	1-2) Refrigerate
Cantharidin (Gas Chromatography/Mass Spectrometry)	165.50 /sample	Toxicology	M-F	1-3 days	1) urine; 2) stomach contents, vomitus	1-2) sterile, leak-proof container	Refrigerate w/ cool pack

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\*\* "Lag Time" is counted in business days, unless otherwise specified, from the day the specimen arrives until the day the test result is reported, assuming there are no complications with testing.

Page 11 of 41

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Cerebrospinal Fluid Cytology	58.00	Clinical Pathology	M - F	1 business day	1) CSF in EDTA; 2) For best results also submit freshly made, rapidly air-dried, un-stained smears. 3) Also submit a red top tube if culture anticipated	1) Lavender-top tube; 2) Also submit a red top tube if culture anticipated	1,3) Refrigerate fluid samples; ship in insulated container with freezer pack for next day delivery. Hold slides at room temperature; protect from chilling/coolant by insulating separately during shipment.
Report includes - Specimen type and site (provided by submitter), Volume, Color, Turbidity, Nucleated cell count, RBC count, Smear type, Smear description, Smear Interpretation Specify if the sample is from the atlanto-occipital or lumbosacral region as result interpretation is dependent on site. Do not allow coolant to come in contact with specimen; ship overnight. STAT service available for same day results (extra charges apply). For additional information see Cytology Testing							
Chlamydia (Chlamydia) FA	25.00 /animal	Virology	M-F	2-4 days	1) Tissue: lung; conjunctival tissue or other suspect affected tissue; fetal tissue such as placenta (preferred), liver or spleen 2) Air-dried conjunctival smear; 3) Milk	1) leakproof, unbreakable plastic container or bag; 2) Slide mailer; 3) Leakproof container	1,3) Ship for next day delivery in insulated container with freezer pack(s) 2) No coolant
Fluorescent antibody							
Chlamydia CF	11.00 /sample	Virology	Once per week	5 days	1 ml serum	red top blood collection tube	It is recommended to ship samples with an ice pack.
Complement Fixation Species tested: bovine, ovine, caprine and feline Note: This test has not been validated on feline species. Contact laboratory before submitting samples from any other species. Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze.							
Chlamydia psittaci PCR	36.75	Molecular Diagnostics	M-F as needed	3-5 days	1) culture (solid or liquid) or isolate; 2) tissue (min. 5 g); 3) feces (min. 5 g); 4) swab	unbreakable, leak-proof container	Refrigerate
PCR Submit swabs in sterile, sealed vials with several drops of saline added, to prevent desiccation. <b>Bacterial transport media are not appropriate for PCR assays.</b> If culture is desired, submit a separate swab in an acceptable bacterial transport media. Cotton, plastic, wood-handled, and Dacron and other synthetic swabs are all acceptable for PCR-based assays. Calcium alginate swabs should be avoided							
Chloride	9.00 /sample (blood, fluid)	Clinical Pathology	M-Sa	1-2 days	1) 1 mL separated serum or heparinized plasma; 2) fluid	Red top (non-anticoagulant) or green top (heparin) tube	Refrigerate. Ship overnight in insulated container with freezer packs.
See Eclnpath for more information							
Chloride, urine	16.50	Clinical Pathology	M-Sa	1-2 days	1 mL urine	Red top (non-anticoagulant) tube or plastic leakproof container	Refrigerate. Ship overnight in insulated container with freezer packs.
Cholesterol	13.00 /sample	Clinical Pathology	M-Sa	1-2 days	1) 1 mL separated serum or heparinized plasma; 2) fluid;	Red top (non-anticoagulant) or green top (heparin) tube	Refrigerate. Ship overnight in insulated container with freezer packs.
Dogs and cats should be fasted for around 12 hours to avoid cholesterol interference from post-prandial hyperlipidemia. See Eclnpath for more information							
Cholinesterase	8.50 /sample	Clinical Pathology	M-Sa	1-2 days	1) 1 mL separated serum or heparinized plasma; 2) fluid	Red top (non-anticoagulant) or green top (heparin) tube	Refrigerate. Ship overnight in insulated container with freezer packs
Measurement of cholinesterase activity in serum or plasma is a quick screening test indicated for animals with a history of possible exposure to organophosphate or carbamate compounds and/or that show clinical signs compatible with exposure. Remember that erythrocytes are rich in cholinesterase, therefore hemolysis invalidates the results.							
Chromatography Quantitation	165.50 per hour	Toxicology	M-F	7 days	1) 10 mL EDTA; 2) 10 mL heparin whole blood; 3) 50 mL urine	Heparinized or EDTA tube, no gel clot; sterile, leak-proof container	1-3) Refrigerate w/ cool pack
Special request only, contact Lab at 607-253-3975 or -3974							
Clostridium chauvoei FA	14.00 /sample	Bacteriology	M-F	1-2 days	1) 2-inch cube of affected muscle; 2) Swab from affected lesions	1) Sealed sterile container; 2) Anaerobic transport media (BBL™ Port-a-cul™ or Anaerobic Systems ATM)	1) Refrigerate; 2) DO NOT refrigerate
For the detection of Clostridium chauvoei by fluorescent antibody stain. Ship overnight. *May qualify for New York State contract pricing .							

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Clostridium difficile Toxins (A/B)	33.00 /sample	Bacteriology	M, W, F	2 days	Fresh feces or tied-off loop of bowel (with contents)	Sealed sterile container. Swabs are NOT acceptable.	Refrigerate. Fresh samples must reach the lab within 24 hours of collection. If this is not possible, freeze immediately and ship overnight frozen on dry ice.
<p>For the detection of Clostridium difficile toxins A and B by ELISA in enteric samples.  *May qualify for New York State contract pricing.  For investigational purposes only. The sensitivity of this Clostridium difficile toxin test is maximized by freezing fecal samples that can not be sent chilled to the lab to arrive the next day, since these toxins are heat labile. If you are requesting other testing on feces or colon contents, such as parasitology exams for which the sample should not be frozen, it requires having two separate fecal specimens. The specimen held over a night or weekend can be frozen, labeled as "held frozen" and shipped with extra insulation/freezer packs. A negative toxin test result on a sample that has not been handled in this way should be interpreted with caution as it may not reflect the actual disease status of the animal. Please consider the Foal Diarrhea/Septicemia Kit and Adult Equine Diarrhea Kit for equine submissions.</p>							
Clostridium novyii FA	14.00 /sample	Bacteriology	M-F	1-2 days	1) 2-inch cube of affected muscle; 2) Swab from affected lesions	1) Sealed sterile container; 2) Anaerobic transport media (BBL™ Port-a-cul™ or Anaerobic Systems ATM)	1) Refrigerate; 2) DO NOT refrigerate
<p>For the detection of Clostridium novyii by fluorescent antibody stain.  Ship overnight. *May qualify for New York State contract pricing .</p>							
Clostridium perfringens Enterotoxin	28.00 /sample	Bacteriology	M, W, F	2 days	Fresh feces or tied-off loop of bowel (with contents)	Sealed sterile container. Swabs are NOT acceptable.	Refrigerate. Fresh samples must reach the lab within 24 hours of collection. If this is not possible, freeze immediately and ship overnight frozen on dry ice.
<p>For the detection of Clostridium perfringens enterotoxin by ELISA.  This ELISA tests for only one of several possible toxins. Please also consider anaerobic culture. The sensitivity of this Clostridium perfringens toxin test is maximized by freezing fecal samples that can not be sent chilled to the lab to arrive the next day, since these toxins are heat labile. If you are requesting other testing on feces or colon contents, such as parasitology exams for which the sample should not be frozen, it requires having two separate fecal specimens. The specimen held over a night or weekend can be frozen, labeled as "held frozen" and shipped with extra insulation/freezer packs. A negative toxin test result on a sample that has not been handled in this way should be interpreted with caution as it may not reflect the actual disease status of the animal. Please consider the Foal Diarrhea/Septicemia Kit and Adult Equine Diarrhea Kit for equine submissions.</p>							
Clostridium perfringens genotyping PCR	36.75	Molecular Diagnostics	M-F as needed	3-5 days	1) Clostridium perfringens isolate or culture	1) isolate already in lab; or 2) anaerobically submitted culture isolate	Refrigerate
Clostridium septicum FA	14.00 /sample	Bacteriology	M-F	1-2 days	1) 2-inch cube of affected muscle; 2) Swab from affected lesions	1) Sealed sterile container; 2) Anaerobic transport media (BBL™ Port-a-cul™ or Anaerobic Systems ATM)	1) Refrigerate; 2) DO NOT refrigerate
<p>For the detection of Clostridium septicum by fluorescent antibody stain.  Ship overnight. *May qualify for New York State contract pricing .</p>							
Clostridium sordellii FA	14.00 /sample	Bacteriology	M-F	1-2 days	1) 2-inch cube of affected muscle; 2) Swab from affected lesions	1) Sealed sterile container; 2) Anaerobic transport media (BBL™ Port-a-cul™ or Anaerobic Systems ATM)	1) Refrigerate; 2) DO NOT refrigerate
<p>For the detection of Clostridium sordellii by fluorescent antibody stain.  Ship overnight. *May qualify for New York State contract pricing .</p>							
Clotting Factor (07) FVII Activity, Large-Exotic	34.00	Comparative Coagulation		2-3 days	2 mL separated citrate plasma	plastic or siliconized glass tube in styrofoam box	Refrigerate
Clotting Factor (09) FIX Activity, Large/Exotic	34.00	Comparative Coagulation	M-F	2-3 days	2 mL separated citrate plasma	plastic or siliconized glass tube in styrofoam box	Refrigerate
<p>Factor IX coagulant activity</p>							
Clotting Factor (10) FX Activity, Large-Exotic	34.00	Comparative Coagulation	M-F	2-3 days	2 mL separated citrate plasma	plastic or siliconized glass tube in styrofoam box	Refrigerate
<p>The measurement of Factor X coagulant activity in large and exotic animals.</p>							

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Clotting Factor (11) FXI Activity, Large-Exotic The measurement of Coagulant Factor XI in large and exotic animals	34.00	Comparative Coagulation	M-F	2-3 days	2 mL separated citrate plasma	plastic or siliconized glass tube in styrofoam box	Refrigerate
Clotting Factor (12) FXII Activity, Large-Exotic The measurement of Coagulation Factor XII in large and exotic animals.	34.00	Comparative Coagulation	M-F	2-3 days	2 mL separated citrate plasma	plastic or siliconized glass tube in styrofoam box	Refrigerate
Clotting Factor (13) FXIII Deficiency Screening Requires submission of paired sample from same-species control animal	56.00	Comparative Coagulation	Monday - Thursday	1 - 3 days	citrate plasma	plastic or siliconized glass tube in styrofoam box	
Coagulation Panel, Large Animal Incl. aPTT, PT, Fibrinogen Ship Overnight: for additional info on Submission Guidelines, or see Comp Coag web page	42.50	Comparative Coagulation	M-F	same day	2 mL separated citrate plasma	plastic or siliconized glass tube in styrofoam box	Refrigerate/ship on cold pack
Copper, serum/plasma Contact Lab for specifics for avian and very small animals	25.00 /sample	Toxicology	M-F	3 days	1) 2 mL serum; 2) or transfer 2 mL heparinized plasma into a red top tube	1-2) Red top tube, no gel clot	1-2) Refrigerate. Ship in insulated container with ice pack.
Coronavirus PCR, Beta The beta coronavirus PCR employed by the AHDC will detect canine respiratory coronavirus, camelid enteric coronavirus, equine enteric coronavirus and the respiratory and enteric coronaviruses of cattle. For species specific testing information please see Coronavirus PCR Guidelines. Submit swabs in sterile, sealed vials with several drops of saline added, to prevent desiccation. Bacterial transport media are not appropriate for PCR assays. If culture is desired, submit a separate swab in an acceptable bacterial transport media. Cotton, plastic, wood-handled, and Dacron and other synthetic swabs are all acceptable for PCR-based assays. Calcium alginate swabs should be avoided. This service is performed pursuant to an agreement with Roche Molecular Systems. *May qualify for New York State contract pricing.	36.75 /sample	Molecular Diagnostics	M-F as needed	3-5 days	1) Feces; 2) Fecal swab 3) Intestinal tissue 4) Nasal swab; 5) Lung tissue	1) unbreakable leak-proof container; 2) Red top tube; 3) leakproof container; 4) Red top tube, 5) Leakproof container	Refrigerate. Ship in insulated container with ice pack.
Corticosteroids, Drug Screen capillary GC/MS Special request only ; contact Lab at 607-253-3975 or -3974. The list of drugs covered in this screen include: Dexamethasone, Betamethasone, Methyl Prednisolone, Prednisolone, Prednisone, Flumethasone, Triamcinolone, and Triamcinolone Acetonide.	331.00 /sample	Toxicology	M-F	3 days	1) 20 mL heparin whole blood; 2) or transfer 5 mL heparin plasma into a red top tube; 3) 50 mL urine	1) Heparinized tube, no gel clot; 2) red top blood collection tube; 3) sterile container	1-3) Refrigerate w/ cool pack
Coxiella burnetii (Q-Fever) ELISA also known as Q-Fever ELISA Ovine, Caprine, and Bovine. Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze.	16.50	Virology	as needed	3-10 days	1) 1 mL serum; 2) Plasma; 3) Milk	1,2) Blood collection tube; 3)Leakproof container	It is recommended to ship samples with an ice pack.
Coxiella burnetii (Q-Fever) PCR also known as Q-Fever PCR Ship Overnight -- do not freeze milk or blood! This service is performed pursuant to an agreement with Roche Molecular Systems.	36.75	Molecular Diagnostics	M-F as needed	3-5 days	1) milk: see comment (large animals: min. 50 mL; small animals: min. 10 mL); 2) tissue (placenta preferred, min. 5 g for all tissue); 3) EDTA blood (min. 2 mL)	unbreakable, leak-proof container	1),3) Refrigerate. 2) Refrigerate or freeze.
Creatine kinase CK, CPK See Eclinpath for more information	8.50 /sample	Clinical Pathology	M-Sa	1-2 days	1) 1 mL separated serum or heparinized plasma; 2) fluid; 3) 2 mL urine	Red top (non-anticoagulant) or green top (heparin) tube	Refrigerate. Ship overnight in insulated container with freezer packs
Creatinine See Eclinpath for more information	11.00 /sample (blood, fluid)	Clinical Pathology	M-Sa	1-2 days	1) 1 mL separated serum or heparinized plasma; 2) fluid	Red top (non-anticoagulant) or green top (heparin) tube	Refrigerate. Ship overnight in insulated container with freezer packs

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Creatinine, urine	19.00	Clinical Pathology	M-Sa	1-2 days	1 mL urine	Red top (non-anticoagulant) tube or plastic leakproof container	Refrigerate. Ship overnight in insulated container with freezer packs
Cryptosporidium ELISA ELISA plus Centrifugation Concentration Flotation with Sugar and/or Zinc Sulfate. Fecal Qualitative or Quantitative exam will be performed with each ELISA at an additional fee. This ELISA cannot be requested alone. If both Cryptosporidium and Giardia ELISA's are ordered, only one flotation will be performed and charged.	25.00	Parasitology	Mon, Thur	1-3 days	feces	wide mouth leak-proof container	Refrigerate
Cryptosporidium Spp real-time PCR  This real-time PCR assay detects the 18S rRNA gene of pathogenic Cryptosporidium species according to the method published by Operario et al. Am J Trop Med Hyg. 2015. This test is intended primarily for research applications at this time. Please contact lab for volume discounts. Ct values at or below 28 are more likely to be associated with active diarrhea. Ct values above 32 are less likely to be associated with diarrhea.	36.75	Molecular Diagnostics	M-F	3-5 days	Feces, intestinal tissue	Sealed vial or container in a secondary container	Refrigerate. Ship in insulated container with ice pack.
Cyanide  1-2) Refrigerate promptly; Cannot analyze in plasma or serum - Need whole blood. Do not use heparin separator tubes (gel tubes)	55.25 /sample	Toxicology	M-F	2 days	1) 10 mL EDTA whole blood; 2) 10 mL heparinized whole blood; 3) 50g stomach contents; 4) 100g forage, silage, or other material 3-4) freeze samples promptly, keep samples cold in transit; special request only, contact Lab to make arrangements	Heparinized or EDTA tube; air-tight container	1-2) Refrigerate; 3-4) freeze
Cytology Smear Exam  Report includes - Specimen type and site (provided by submitter), Smear type, Smear description, Smear Interpretation With fluid aspirates, please also submit 2-3 freshly prepared smears of the fluid and specify smear type, i.e. direct or sediment, on the smears and on the cytology submission form. Do not allow coolant to come in contact with specimen; ship overnight. STAT service available for same day results (extra charges apply). For additional information see Cytology Testing	48.00	Clinical Pathology	M - F	1 business day	1) Smears (at least 2-3 unstained smears preferred); and/or 2) Fluid in EDTA (no cell counts or total protein provided)	1) Frosted-end slides; 2) Lavender-top tube (if submitting fluid)	Refrigerate fluids only; ship in insulated container with freezer pack for next day delivery. Hold smears/slides at room temperature; protect from chilling/coolant by insulating separately during shipment
Dermatology Biopsy Surcharge For Dermatology biopsies (up to 5 sites)	15.00	Anatomic Pathology	M - F	4 - 10 days	0.5 to 1.0 cm thick section of tissue fixed in 10% neutralized formalin, 10:1 formalin to tissue ratio.	Wide-mouth, leakproof, unbreakable jar; NOT GLASS	room temperature; protect from freezing
DIC Panel, Large Animal and Exotics Includes aPTT, PT, Fibrinogen, Antithrombin, D-dimer Ship Overnight: for additional info on Submission Guidelines, or see Comp Coag web page	103.00	Comparative Coagulation	M-F	same day	2 mL separated citrate plasma	plastic or siliconized glass tube in styrofoam box	Refrigerate/ship on cold pack
Dilute Russell's Viper Venom Time Ship Overnight: for additional info on Submission Guidelines, or see Comp Coag web page	15.50	Comparative Coagulation	M-F	same day	citrate plasma	plastic or siliconized glass tube in styrofoam box	Refrigerate/ship on cold pack
Drug Quantitation Special request only, contact Lab	165.50 per hour	Toxicology	M-F	5 days	1) 10 mL heparin plasma transferred to red top; 2) 20 mL heparin whole blood; 3) 50 mL urine	1) red top blood collection tube; 2) Heparinized tube, no gel clot; 3) sterile container	1-3) Refrigerate w/ cool pack
Ehrlichia canis PCR E. canis PCR The sample required for testing from live animals is EDTA whole blood. Ticks must first be submitted for parasite ID to determine if they are a vector species; see Parasite Identification test.	36.75	Molecular Diagnostics	M-F as needed	3-5 days	1) EDTA blood, buffy coat (min. 2 mL); 2) tick: see comment; 3) tissue (min. 5 g)	unbreakable, leak-proof container	Refrigerate
Electrolytes Panel Na, K, Cl For more information, see Chemistry Panel Information	17.00 /sample (blood, fluid)	Clinical Pathology	M-Sa	1-2 days	1) 1 mL separated serum or heparinized plasma; 2) fluid	Red top (non-anticoagulant) or green top (heparin) tube	Refrigerate. Ship overnight in insulated container with freezer packs

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Electrolytes Panel, urine  Na, K, Cl, Creat For more information, see Chemistry Panel Information.	31.00	Clinical Pathology	M-Sa	1-2 days	2 mL urine	Red top (non-anticoagulant) tube or plastic leakproof container	Refrigerate. Ship overnight in insulated container with freezer packs
Electrophoresis, blood	60.00	Clinical Pathology	1x/wk	7-10 days	1) 1 mL separated serum; 2) heparinized plasma for exotics/avian only	plain glass or plastic tube	Refrigerate
Electrophoresis, fluid  All species; please specify site of fluid collection	60.00	Clinical Pathology	1x/wk	7-10 days	Body fluids. Please specify site.	plain glass or plastic tube	Refrigerate
Electrophoresis, urine	60.00	Clinical Pathology	1x/wk	7-10 days	) 5-7 mL urine	plain glass or plastic tube	Refrigerate
Enteric Bacteriology Cultures, Panel 1  Includes aerobic culture [E. coli, Rhodococcus (foals only), Shigella (primates only)], and Salmonella culture. *May qualify for New York State contract pricing. Aerobic culture not tested on calves over 10 days of age. Antimicrobial Susceptibility (MIC) are not included in the testing fee. Please consider the Foal Diarrhea/Septicemia Kit for foal submissions.	62.00 /sample	Bacteriology	M-Sa	3-7 days	1) Fresh feces or intestinal contents; 2) Ligated ileum or jejunum; 3) Mesenteric lymph node; 4) Swab of 1-3	1) Sealed, sterile container or ParaPak; 2-3) Sealed sterile container; 4) Swab in Amies transport media	1-3) Refrigerate. Ship in insulated container with ice pack. EXCEPT ParaPak, which is shipped at room temperature and protected from temperature extremes.
Enteric Bacteriology Cultures, Panel 2  Includes aerobic culture [E. coli, Rhodococcus (foals only), Shigella (primates only)], Salmonella culture and Campylobacter jejuni culture. Antimicrobial Susceptibility (MIC) are not included in the testing fee. Susceptibilities not applicable to Campylobacter jejuni.	87.00 /sample	Bacteriology	M-Sa	3-7 days	1) Fresh feces or intestinal contents; 2) Ligated ileum or jejunum; 3) Mesenteric lymph node; 4) Swab of 1-3	1) Sealed, sterile container or ParaPak; 2-3) Sealed sterile container; 4) Swab in Amies transport media	1-3) Refrigerate. Ship in insulated container with ice pack. EXCEPT ParaPak, which is shipped at room temp and protected from temperature extremes.
Enteric Bacteriology Cultures, Panel 3  Includes aerobic culture [E. coli, Rhodococcus (foals only), Shigella (primates only)], Salmonella culture, Campylobacter jejuni culture, anaerobic culture [Clostridium perfringens (all species) and Clostridium difficile* (foals and primates only)] Antimicrobial Susceptibility (MIC) are not included in the testing fee. Susceptibilities are not applicable to Campylobacter jejuni and Clostridia species. *Culture for Clostridium difficile in other species available by request only. *Culture for Clostridium difficile in other species available by request only. **Anaerobic Transport medias (e.g. BBL™ Port-a-cul™ or Anaerobic Systems ATM) are suitable for most aerobic cultures, including for the aerobes of concern in enteric infections. Despite labelling to the contrary, culture systems containing Amies transport media or Stuart transport media are inappropriate as transport systems for anaerobic culturing. Swabs transported without any transport media are unsuitable for both aerobic and anaerobic culture.	132.00 /test	Bacteriology	M-Sa	3-7 days	1) Anaerobic transport media inoculated with swab of fresh feces or intestinal contents; or 2) Ligated ileum or jejunum; and/or 3) Mesenteric lymph node	1) Anaerobic transport media** (BBL™ Port-a-cul™ or Anaerobic Systems ATM); or 2-3) Sealed sterile container	1) DO NOT Refrigerate anaerobic transport media tubes or vials; 2-3) Tissues are ideally held and shipped frozen with sufficient insulation and freezer packs to arrive next day and very cold; refrigerated temperatures are acceptable only for tissue samples delivered to the lab within 24 hours of collection.
Environmental Count  Non NYS Price: \$40.00	30.00 NY (see comment)	Quality Milk Production Services	M-F	48 hours	>10-50 grams bedding manure solids	Clean, sealed container	Refrigerate sample. Ship in insulated container with ice pack w/in 24 hrs.
Environmental Samples (for parasites)  Please contact Lab: fee depends on parasite of interest, type of sample submitted, and processing required	25.00 See comments for fee	Parasitology	M-F	1-7 days	Please contact Lab before submitting sample to determine if sample is appropriate for testing.		

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VSS-WEB-077-V01

\* Each accession received will be charged a \$5.00 accessioning fee, in addition to the requested testing. Fees are subject to change without notice, please call the lab if you have any questions. Contract pricing available. For information please refer to <https://ahdc.vet.cornell.edu/billing/contract.cfm>  
\*\* "Lag Time" is counted in business days, unless otherwise specified, from the day the specimen arrives until the day the test result is reported, assuming there are no complications with testing.

Page 16 of 41



## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Epizootic Disease virus PCR  This assay detects virus nucleic acid in tissues and fluids of affected animals.	36.75	Molecular Diagnostics	M-F, as needed	3 - 5 days	1) Lung, lymph node, vesicular lesion, or 2) swab of vesicular lesion, or 3) EDTA or Citrated whole blood	Leak proof container or blood tube	Refrigerate. Ship in insulated container with ice pack
Epizootic Hemorrhagic Disease (EHD) AGID  Agarose gel immuno-diffusion. Acceptable species: Ruminant Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze.	6.25 /sample	Virology	M-Th	2-4 days	1 ml serum; plasma is not an acceptable sample for this test	red top blood collection tube	It is recommended to ship samples with an ice pack.
Epizootic Hemorrhagic Disease 1SN  Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze. Paired serum samples are recommended for optimal diagnostic test interpretation.	10.00	Virology	M, Th	5-9 days	1 ml serum	red top blood collection tube	It is recommended to ship samples with an ice pack.
Epizootic Hemorrhagic Disease 2SN  Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze. Paired serum samples are recommended for optimal diagnostic test interpretation.	10.00	Virology	M, Th	5-9 days	1 ml serum	red top blood collection tube	It is recommended to ship samples with an ice pack.
Escherichia coli Genotyping PCR  E. coli Genotyping PCR; bovine only The Animal Diagnostic Center uses a referral lab for non-bovine samples.	36.75	Molecular Diagnostics	M-F as needed	3-5 days	1) isolate of E. coli	1) isolate already in lab; 2) TSA slant	Refrigerate
Estradiol baseline  Only limited testing available at this time for pre-authorized clients. For more information, please call the lab at 607-253-3673. For more information, see Appendix C	28.00	Endocrinology	W	2-7 days	2 - 2.5 mL serum	plastic or glass tube	Refrigerate
Ethylene Glycol  Special request only, contact Lab	55.00 /sample	Toxicology	M-F	2 days	1) 10 mL heparin whole blood; 2) 10 mL EDTA whole blood; 3) urine; 4) food materials; 5) stomach contents	1,2) Heparinized or EDTA tube, no gel clot3-5) sterile, leak-proof container	1-5) Refrigerate w/ cool pack
Fecal Qualitative  A double centrifugation concentration fecal flotation with sugar and/or zinc sulfate solution used as a general test for evaluating feces for parasitic infections The qualitative fecal flotation, using a double centrifugation concentration technique, is a general broad based test for evaluating feces for parasitic infections. It indicates the presence or absence of patent protozoan or worm infections in domestic and wild animals of all species. Samples from individual animals are preferred. Composite samples tell when there is a parasite problem, but not the animals that are particularly affected. In this laboratory, all samples are actively floated (centrifuged) using a sugar solution (1.33 specific gravity). Zinc sulfate solution (1.18 specific gravity) is used also for samples from small animals, animals under six months of age, and when delicate protozoa, such as Giardia, or worms, such as nematode larvae, are of concern. Using these flotation media, protozoan cysts and worm eggs and larvae are recovered for microscopic evaluation. When submitting a sample provide a sufficient sample to make a diagnosis possible, and include a history of the health concerns related to the animal(s) from which the sample(s) are collected. For best results, collect fresh samples, keep them refrigerated, and submit them for examination within seven days of collection. Samples that are preserved in 10% formalin or 70% alcohol can also be submitted, but the preservative may compromise the quality of the sample for parasite detection.	25.00	Parasitology	M-F	1-3 days	10g fresh fecal sample, animal 3 days of age or older	Plastic leakproof container	Freezer Packs. Ship Next Day Delivery
Fecal Quantitative  Centrifugation Concentration Flotation with Sugar and/or Zinc Sulfate solution. Primarily used to examine feces of camelids, horses, and ruminants, but other species may be requested. Reported as the number of cysts/ oocysts/ eggs/ larvae per gram. Samples for animals under 3 days of age will not be tested.	25.00	Parasitology	M-F	1-3 days	10g fresh fecal sample, animal 3 days of age or older	wide mouth leak-proof container	Refrigerate
Fecal Wet Mount  Was previously called "Direct Fecal Smear" Exam for motile parasites. This test for Cornell CUHA only (must be read within 1 hr of fecal production by host). See Trich. Fecal Exam, Staining for Other Protozoa, or Giardia ELISA	5.50	Parasitology	M-F	1 day	10g fresh fecal sample	wide mouth leak-proof container	Do NOT Refrigerate
Fibrinogen  Quantitative measure of clottable fibrinogen (Clauss method) Ship Overnight; for additional info on Submission Guidelines, or see Comp Coag web page	22.00	Comparative Coagulation	M-F	same day	1 mL separated citrate plasma	plastic or siliconized glass tube in styrofoam box	Refrigerate/ship on cold pack
Fibrinogen (antigen)  Fibrinogen concentration; ELISA method Ship Overnight; for additional info on Submission Guidelines, or see Comp Coag web page	43.00	Comparative Coagulation	Tu, F	1-3 days	1 mL separated citrate plasma	plastic or siliconized glass tube in styrofoam box	Refrigerate/ship on cold pack

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Fibrinogen (heat-precipitation)  Formerly named Fibrinogen (Schalm's) Do not allow coolant to come in contact with specimen. This test is not recommended for small animals due to its inaccuracy and insensitivity. The preferred method for small animals is measurement of clottable fibrinogen (citratd plasma) offered in the Comparative Coagulation lab.	16.00	Clinical Pathology	M-Sa	1-2 days	EDTA blood (> 1/2 full)	lavender top tube	Refrigerate
Field Necropsy Surcharge  This charge will be added to any histopathology request on ante-mortem tissues unless deemed unnecessary by the reviewing pathologist, in which case only a standard histopathology charge will be applied. For necropsied animals it is always recommended to submit a complete set of tissues representing major organ systems and any sites potentially involved based upon clinical history, ante-mortem testing, or post-mortem gross lesions. Tissues will be selected for histopathological examination based upon the clinical history and gross description provided, at the discretion of the pathologist. A clinical history for the individual animal and potentially also for the herd or population from which the animal originates is very important. Also indicate if the animal was euthanized.	56.00	Anatomic Pathology	M-F	4-10 days	0.5 to 1.0 cm thick section of tissue fixed in 10% neutralized formalin, 10:1 formalin to tissue ratio.	Wide-mouth, leakproof, unbreakable jar; NOT GLASS	room temperature; protect from freezing
Fluphenazine (LC/MS)  (Liquid Chromatography/Mass Spectrometry) Liquid Chromatography/Mass Spectrometry (LC/MS)	165.50 /sample	Toxicology	M-F	1-3 days	1) 10 mL heparine whole blood; or 2) 5 mL heparine plasma transferred to red top tube	Heparinized tube, no gel clot	Refrigerate with cold pack
Fructosamine  See Eclinpath for more information	36.00	Clinical Pathology	M-Sa	1-2 days	1 mL separated serum	red top blood collection tube	Refrigerate. Ship overnight in insulated container with freezer packs
Fungal Culture  For the isolation of yeasts, dermatophytes and other filamentous fungi. *May qualify for New York State contract pricing. **Swabs are not encouraged for tissues or body fluids. Keep tissues moist. Ship overnight. Antifungal susceptibilities are not included in the testing fee.	47.00 /sample	Bacteriology	M-F	28+ days	1)Nails, skin scrapings or 10-12 hairs from border of lesion; combings from asymptomatic cats (dermatophytes); 2)Fresh tissue or body fluids (systemic fungi/yeast); 3)Ear (yeast); 4) Swab of lesion, tissue, fluid or ear	1) DRY sterile sealed container (e.g. closed urine cup or envelope); 2) Fluid or tissue in Sterile, sealed container (e.g. red top blood collection tube); 4) Swab in Amies transport media**	1) Not required; 2) Refrigerate
Fungal ID For the identification of pure fungal isolates (filamentous fungi or yeast). Submissions accepted from Laboratories only. Ensure purity before shipment. Follow all biohazard shipping regulations. Provide animal history and suspected identification if possible. Antifungal susceptibilities are not included in the testing fee.	47.00 /isolate	Bacteriology	M-F	28+ days	Fungal isolate (pure culture)	Agar slant or plate (sealed)	Refrigerate
Fungal KOH Fluorescent Stain  For the direct microscopic examination for yeast and fungi. *May qualify for New York State contract pricing . Swabs are not acceptable	12.00 /sample	Bacteriology	M-F	1-2 days	1)Nails, skin scrapings or 10-12 hairs from border of lesion; combings from asymptomatic cats (dermatophytes); 2)Fresh tissue or body fluids (systemic fungi/yeast); 3)Prepared slide	1) DRY sterile sealed container (e.g. closed urine cup or envelope); 2) Sterile sealed container (e.g. red top blood collection tube); 3) Slide mailer	1,3) Not Required; 2) Refrigerate
Fungal Serology Panel For the detection of antibody to Histoplasma, Blastomyces, Coccidioides and Aspergillus (AGID) and Cryptococcus antigen in serum. Tests can be requested individually. See Histoplasma AGID, Blastomyces AGID, Coccidioides AGID, Aspergillus AGID or Cryptococcus antigen.	64.00	Bacteriology	M, W, F	3-5 days	1) Serum; 2) Cerebrospinal fluid (for Cryptococcus antigen only)	1) Red top blood collection tube; 2) Sealed sterile container	1-2) Refrigerate
Fungal Serology: Aspergillus Antibody  For the detection of Aspergillus antibody in serum by AGID. Test is also part of the Fungal Serology Panel.	16.00 /sample	Bacteriology	M, W, F	3-5 days	Serum	Red top blood collection tube	Refrigerate. Ship in insulated container with ice pack.
Fungal Serology: Blastomyces Antibody  For the detection of Blastomyces antibody in serum by AGID. Test is also part of the Fungal Serology Panel.	16.00 /sample	Bacteriology	M, W, F	3-5 days	Serum	Red top blood collection tube	Refrigerate. Ship in insulated container with ice pack.

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Fungal Serology: Coccidioides Antibody For the detection of Coccidioides antibody in serum by AGID. Test is also part of the Fungal Serology Panel.	16.00 /sample	Bacteriology	M, W, F	3-5 days	Serum	Red top blood collection tube	Refrigerate
Fungal Serology: Cryptococcus Antigen For the detection of antigen to Cryptococcus spp. in serum. Test is also part of the Fungal Serology Panel.	22.00 /sample	Bacteriology	M-F	1 day	1) Serum; 2) Cerebrospinal fluid	1) Red top blood collection tube; 2) Sealed sterile container	1-2) Refrigerate
Fungal Serology: Histoplasma Antibody For the detection of Histoplasma antibody in serum by AGID. Test is also part of the Fungal Serology Panel.	16.00 /sample	Bacteriology	M, W, F	3-5 days	Serum	Red top blood collection tube	Refrigerate
Fungal Susceptibility  This test includes Amphotericin B, 5-Flucytosine, Anidulafungin, Caspofungin, Micafungin, Fluconazole, Itraconazole, Posaconazole, Voriconazole *May qualify for New York State contract pricing. **Swabs are not encouraged for tissues or body fluids. Susceptibilities will NOT be performed on dermatophytes or other slow growing fungi. Fungal culture MUST be performed to recover an isolate before testing can be done. ***Lag time may be longer if isolation is required. From time of isolation: 5-6 days for yeast, 12-14 days for filamentous fungi.	68.00 /isolate	Bacteriology	M-TW	6 days for pur	1) Fresh tissue or body fluids (for filamentous fungi and yeasts to assess systemic infection); 2) Fungal isolate (pure culture) – yeast or fast growing filamentous fungi ONLY	1) Sealed sterile container (preferred) or *Amies transport media (swab); 2) Agar slant or plate (sealed)	1) Refrigerate; 2) Not required
Gamma Glutamyl Transferase (GGT)  See Eclinpath for more information	9.50 /sample (blood, fluid)	Clinical Pathology	M-Sa	1-2 days	1) 1 mL separated serum or heparinized plasma; 2) fluid	Red top (non-anticoagulant) or green top (heparin) tube	Refrigerate. Ship overnight in insulated container with freezer packs.
Gamma Glutamyl Transferase (GGT), urine	17.00	Clinical Pathology	M-Sa	1-2 days	1 mL urine	Red top (non-anticoagulant) tube or plastic leakproof container	Refrigerate. Ship overnight in insulated container with freezer packs.
Giardia ELISA ELISA plus Centrifugation Concentration Flotation with Sugar and/or Zinc Sulfate. A Fecal Qualitative or Quantitative exam will be performed with each ELISA at an additional fee. This ELISA cannot be requested alone. If both Cryptosporidium and Giardia ELISA's are ordered, only one flotation will be performed and charged.	25.00	Parasitology	Mon, Thur	1-3 days	feces	wide mouth leak-proof	Refrigerate
Glucose  Glucose levels in blood and fluids Delayed serum separation or submission of whole blood (cells on serum or plasma) results in a falsely decreased (uninterpretable) glucose. Serum should also be removed promptly from serum separator tubes and placed into a new red top tube. See Eclinpath for more information	11.00 /sample (blood, fluid)	Clinical Pathology	M-Sa	1-2 days	1) 1 mL separated serum, EDTA plasma, or heparinized plasma; 2) fluid	Red top (non-anticoagulant), green top (heparin), or purple top (EDTA) tube	Refrigerate. Ship overnight in insulated container with freezer packs.
Glucose, urine	17.00	Clinical Pathology	M-Sa	1-2 days	1 mL urine	Red top (non-anticoagulant) tube or plastic leakproof container	Refrigerate. Ship overnight in insulated container with freezer packs
Glutamate Dehydrogenase, blood	8.50	Clinical Pathology			1) 1 mL separated serum or heparinized plasma; 2) fluid		
Gram Stain  For the direct microscopic examination for bacteria. *May qualify for New York State contract pricing. Please consider using the Foal Diarrhea/Septicemia Kit and Adult Equine Diarrhea Kit for equine submissions. Specific bacteria cannot be definitively identified by this test.	8.50 /sample	Bacteriology	M-F	1-2 days	1) Affected tissue, lesion or fluid; 2) Prepared slide	1) Affected tissue, lesion or fluid in sealed sterile container; 2) Slide mailer	1) Refrigerate; 2) Not required
Hemoglobin (HGB)  Do not allow coolant to come in contact with specimen; ship Overnight	7.00	Clinical Pathology	M-Sa	1-2 days	EDTA blood (> 1/2 full)	lavender top tube	Refrigerate

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Hemogram (CBC), Automated (Mammalian)	18.50	Clinical Pathology	M-Sa	1-2 days	1) EDTA blood (> 1/2 full) AND 2) 2 dry (unfixed, unstained) blood smears	1) lavender top tube; 2) frosted-end slides	1) Refrigerate blood; ship in insulated container with freezer pack for next day delivery. Hold slides at room temperature; protect from chilling/coolant by insulating separately during shipment.
<p>WBC, RBC, HgB, HCT, MCV, MCH, MCHC, RDW, Plate Count, MPV, Automated Differential Cell Count            Do not allow coolant to come in contact with specimen or slides; ship overnight. For additional info on Clin Path panels For instructions on making blood smears see <a href="https://ahdc.vet.cornell.edu/Sects/ClinPath/sample/test/hema.cfm#Bloodsmear">https://ahdc.vet.cornell.edu/Sects/ClinPath/sample/test/hema.cfm#Bloodsmear</a></p>							
Hemogram (CBC), Partial	11.50	Clinical Pathology	M-Sa	1-2 days	1) EDTA blood (> 1/2 full) AND 2) dry, unfixed, unstained blood smears	1) lavender top tube; 2) frosted-end slides	Refrigerate
<p>WBC, RBC, HgB, Platelet Count, PCV, MPV, RDW, MCH, MCHC, MCV            Do not allow coolant to come in contact with specimen or slides; ship overnight. For additional info on Hematology Testing.</p>							
Hemogram, Large Animal	41.00	Clinical Pathology	M - Sa	1 - 2 days	1) EDTA whole blood AND 2) 2 unstained, air-dried blood smears	1) lavender top tube; 2) frosted-end slides	Refrigerate blood; ship in insulated container with freezer packs for next day delivery. Hold slides at room temperature; protect from chilling/coolant by insulating separately during shipment
<p>WBC, RBC, HgB, HCT, MCV, MCH, MCHC, RDW, Plate Count, MPV, Morphology, Manual Differential Cell Count, Plate Smear est, Plasma Appearance, TP            Protect slides from chilling/coolant during storage/shipment. For instructions on making blood smears see <a href="https://ahdc.vet.cornell.edu/Sects/ClinPath/sample/test/hema.cfm#Bloodsmear">https://ahdc.vet.cornell.edu/Sects/ClinPath/sample/test/hema.cfm#Bloodsmear</a></p>							
Heparin (Low Molecular Weight)	39.25	Comparative Coagulation	M-F	same day	citrate plasma	plastic or siliconized glass tube in styrofoam box	Refrigerate/ship on cold pack
<p>Anti-Xa activity of low molecular weight heparin            Ship Overnight; for determination of peak anti-Xa values, collect sample 2-3 hrs (cat) or 3-4 hrs (dogs) after heparin dose. For additional info on Submission Guidelines, or see Comp Coag web page. Also see Heparin Assay FAQs.</p>							
Heparin (Unfractionated)	39.25	Comparative Coagulation	M-F	same day	0.5 to 1.0 mL separated citrate plasma	plastic or siliconized glass tube in styrofoam box	Refrigerate/ship on cold pack
<p>Anti-Xa activity of unfractionated heparin            Ship overnight; specify UFH or LMWH; for additional info on Submission Guidelines, or see Comp Coag web page. Also see Heparin Assay FAQs.            Peak and trough values: samples for determination of Peak anti-Xa activity should be collected at 3 to 4 hours post treatment (dogs) or 2 to 3 hours post treatment (cats). Samples for Trough levels should be collected just before the next scheduled dose.</p>							

# Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Histopathology  Microscopic examination of formalin fixed, paraffin embedded tissue slides with hematoxylin and eosin staining. Additional special stains, including up to two immuno-histochemistry (IHC) stains, will be added if deemed necessary by the pathologist. Additional IHC stains may be requested for an additional fee. The 1-2 site fee is intended for surgical biopsies and is the baseline charge for the special biopsy categories below. Surcharges for these will be added to the surgical biopsy fee based on the following criteria: Dermatology biopsies: Up to five sites or tissue punches. Please use the Dermatohistopathology form to request this service. For more information, please see Dermatopathology Samples. Liver Biopsy: All canine and feline liver biopsies submitted through the surgical pathology service will receive a surgical biopsy charge plus an additional \$45.00 surcharge for a liver special stain panel. This additional charge will cover a series of special stains and review by our liver pathology specialist since the H&E stain alone may be insufficient to provide proper hepatic analysis. Upon request, a Digital Copper Quantification (DCQ) and/or consultation with a clinical specialist in hepatic disease can be added for additional fees. Please use the Small Animal Liver Biopsy form to request these services. Due to the need for these special stains the processing of reports for these specimens may not be available for 7-10 business days. Special/Augmented biopsies: Intended for complex submissions of entire organs, lobes, systems, tumor beds, limbs, jaws, etc. Field Necropsy: For necropsied animals it is always recommended to submit a complete set of tissues representing major organ systems and any sites potentially involved based upon clinical history, ante-mortem testing, or post-mortem gross lesions. Tissues will be selected for histopathological examination based upon the clinical history and gross description provided, at the discretion of the pathologist. A clinical history for the individual animal and potentially also for the herd or population from which the animal originates is very important. Also indicate if the animal was euthanized. Please contact the lab to arrange for STAT testing. Three tissues per case will be reviewed as a STAT unless prior arrangements are made. Call 607-253-3319 or email pathology service @cornell.edu. *May qualify for New York State contract pricing	66.50 for 1-2 sites; \$20.50 for each additional site. Dermatology biopsies add \$15.00 surcharge (up to 5 sites) , liver biopsies add \$45 surcharge, Special/Augmented or Field Necropsies add \$56.00. If STAT call Lab.	Anatomic Pathology	M-F	4-10 days	0.5 to 1.0 cm thick section of tissue fixed in 10% neutralized formalin, 10:1 formalin to tissue ratio.	Wide-mouth, leakproof, unbreakable jar; NOT GLASS	room temperature; protect from freezing
Histopathology (Each additional site)  Additional charge added for each site evaluated beyond 2 that are part of a standard biopsy. These additional fees will be applied to submissions of multiple masses from a single organ that require separate slides to track specific anatomic locations and monitor margins. They will also apply to submissions for research and legal purposes, as well as general purposes, for which every submitted tissue must be examined. Please call the lab to arrange STAT testing. Three tissues per case as a STAT unless prior arrangements are made. Please call 607-253-3319 to arrange STAT histopathology.	20.50 each additional site	Anatomic Pathology	M-F	4-10 days	0.5 - 1 cm thick section of tissue fixed in 10% neutral buffered formalin, 10:1 formalin to tissue ratio	Wide-mouth, unbreakable jar containing 10% neutral buffered formalin; NOT GLASS	
Histopathology, Slide Review (1-2 slides)  1-2 slides Contact Path Dept (607-253-3312)	55.00 .	Anatomic Pathology	M-F	3 days	1 to 2 Slides	Slide mailer	
Histopathology, Slide Review (3+ slides)  3 or more slides Contact Path Dept (607-253-3312)		Anatomic Pathology	M-F	3 days	3 or more slides	Slide mailer	
IHC w/o Histopathology	35.00	Anatomic Pathology	M-F	2-7 days	formalin fixed tissue (paraffin-embedded), or tissue mounted on glass slides		room temperature; protect from freezing
Immunoglobulin G, Bovine - TIA  Quantitative IgG measurement, e.g. for failure of transfer of passive immunity	30.00	Clinical Pathology	M-Sa	Same day	1 mL separated serum	Plain glass or plastic tube	Refrigerate
Infectious Bov Rhinotrach (IBR) kinetic ELISA The IBR Kinetic ELISA detects antibodies to IBR Single samples only by request (contract)	11.00	Serology	2-3x/wk	2 days	2 mL serum, paired	red top blood collection tube	Refrigerate
Infectious Bovine Rhinotrach (IBR) (BHV-1) Virus Isolation  Bovine Herpesvirus -1 (IBR) Virus Isolation Swabs in bacterial transport medium are not appropriate for virus isolation or PCR testing. If viral transport media is unavailable, put swabs in a red top tube with a few drops of saline.	70.00 /animal	Virology	M-F	21-30 days, s	1) Nasal swab, pharyngeal swab; 2) Tracheal wash, broncho-alveolar lavage; 3) Lung tissue; 4) Fetal tissues (Lung, liver, kidney, spleen, adrenal; 5) Placenta	1) Swabs in Viral Transport Medium; 2) Leakproof container; 3, 4, 5) Sealable plastic bag or container	Ship in insulated container with ice pack

Last Updated: 4/3/2017  
VSS-WEB-077-V01

\* Each accession received will be charged a \$5.00 accessioning fee, in addition to the requested testing. Fees are subject to change without notice, please call the lab if you have any questions. Contract pricing available. For information please refer to <https://ahdc.vet.cornell.edu/billing/contract.cfm>  
 \*\* "Lag Time" is counted in business days, unless otherwise specified, from the day the specimen arrives until the day the test result is reported, assuming there are no complications with testing.

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Infectious Bovine Rhinotrach (IBR) (BHV-1) Virus SN OIE Serum neutralization Testing to meet Office of Int'l Epizootics (OIE) standards. Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze.	14.50	Virology	Th	7-10 days	1 ml serum	red top blood collection tube	It is recommended to ship samples with an ice pack.
Influenza Virus Matrix PCR This PCR assay will detect most if not all influenza virus types currently circulating in most species, including 2009 H1N1 and the 2015 Canine H3N8. This assay does not specifically identify the influenza H and N types. That testing can potentially be requested on positive samples if unusual outbreaks or cross-species transmission is suspected. Submit swabs in sterile, sealed vials with several drops of saline added, to prevent desiccation. <b>Bacterial transport media are not appropriate for PCR assays.</b> If culture is desired, submit a separate swab in an acceptable bacterial transport media. Cotton, plastic, wood-handled, and Dacron and other synthetic swabs are all acceptable for PCR-based assays. Calcium alginate swabs should be avoided. All canine and feline samples testing positive for influenza A matrix will be further tested to determine subtype. Subtyping will be done automatically and at no additional charge. Results will be available within 3-5 days following release of the original result on an addended report. *May qualify for New York State contract pricing. This service is performed pursuant to an agreement with Roche Molecular Systems.	36.75	Molecular Diagnostics	M-F as needed	3-5 days	1) nasal swab; or 2) tissue (min. 5 g); or 3) allantoic fluid (min. 2 mL) or other culture	unbreakable, leak-proof container	Refrigerate
Insulin baseline - not equine Avoid hemolysis and lipemia. For more information, see Appendix C	19.00	Endocrinology	M, W, Th	2-6 days	1.5 mL serum or EDTA plasma; do not send sample on cells	plastic or glass tube	Refrigerate
Ionized Calcium Test run on serum only For special sample collection instructions, see Appendix A	18.50	Clinical Pathology	M-Sa	1-2 days	1 mL separated serum ONLY (see Appendix A)	non-anticoagulant tube (plain red top)	Refrigerate
Ionophore Quantitation Monensin, Lasalocide, Salinomycin Liquid Chromatography/Mass Spectrometry (LC/MS)	165.50 per hour	Toxicology	M-F	1-3 days	1) feed; 2) 10 mL heparin whole blood	1) leak-proof zip-lock bag; 2) green top blood collection tube	Refrigerate w/ cool pack
Ionophore Screen Monensin, Lasalocide, Salinomycin Liquid Chromatography/Mass Spectrometry (LC/MS)	330.75 /sample	Toxicology	M-F	1-3 days	feed samples	leak-proof zip-lock bag	Refrigerate w/ cool pack
Iron	8.50 /sample	Clinical Pathology	M-Sa	1-2 days	1 mL separated serum or heparinized plasma;	plain glass or plastic tube	Refrigerate
Iron Panel Iron (FE), Total Iron Binding Capacity, % Saturation for additional info on Clin Path panels	20.00	Clinical Pathology	M-Sa	1-2 days	1 mL separated serum or heparinized plasma	plain glass or plastic tube	Refrigerate
Johne's AGID For the detection of antibody to Mycobacterium avium sbsp. paratuberculosis (MAP) in serum by AGID. *May qualify for New York State contract pricing. Specimens will be tested for either the bovine or caprine strain of MAP, as appropriate for their species. No longer able to test samples from sheep. Animals must be at least 1 year old. In bovines, caprines, and camelids (include 'exotic' members of the respective family), this test should be requested for clinical suspects only. For surveillance or screening purposes, please request the Johne's Commercial ELISA for cervidae, this test is used for surveillance in healthy animals and for clinical suspects. As cervidae are often infected with either or both the bovine and caprine strains of MAP, serum will be tested against both caprine and bovine reagents and incur double the cost unless requested otherwise. Indicate any previous testing at the AHDC for accurate test result interpretations.	12.00 /sample ; \$24 for cervidae (only)	Bacteriology	M-Th	2-4 days	Serum	Red top blood collection tube	Refrigerate
Johne's CF This complement fixation antibody detection test is used for specified Export and regulatory purposes only. For diagnostic, surveillance or pre-purchase screening, others tests should be selected. For more information, see Appendix G, Johne's Disease; Sampling and Testing Options; Export and Regulatory Testing Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze.	11.00 /sample	Virology	Tu, Th	2-4 days	1 ml serum	red top blood collection tube	It is recommended to ship samples with an ice pack.
Johne's Commercial ELISA The Johnes Commercial ELISA detects antibodies to Mycobacterium avium subsp. paratuberculosis (MAP).	5.00	Serology	M-F	3-4 days	2 mL serum	red top blood collection tube	Refrigerate
Johne's Commercial ELISA, NYSCHAP The Johnes Commercial ELISA detects antibodies to Mycobacterium avium subsp. paratuberculosis (MAP).	5.00	Serology	M-F	3-4 days	2 mL serum	red top blood collection tube	Refrigerate

# Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Johne's Culture, Bovine	40.25 /sample	Bacteriology	M-W	35+ days	1) 15g fresh feces; 2) Fresh distal ileum, ileocecal junction and associated lymph nodes FILL SAMPLE CONTAINERS NO MORE THAN HALF FULL.	1) Wide mouth screw top container; 2) Separate sealed sterile containers. Unacceptable containers for fecal samples include flip-top milk vials, zip-lock baggies, exam gloves, glass jars, prescription bottles, or containers that are taped closed.	1-2) Refrigerate, DO NOT freeze. Ship promptly after collection in an insulated container with cold packs.
<p>For the culture of Mycobacterium avium sbsp. paratuberculosis from individual clinical suspects. For NYS bovine submissions, our default test is the Johne's Fecal PCR. Requests for Johne's fecal culture will be automatically changed to Johne's Fecal PCR unless a comment is included on the submission form indicating why culture must be performed instead. For Non-NYS bovine submissions, Johne's Fecal PCR is the recommended test choice for fecal detection of Mycobacterium sbsp paratuberculosis, due to the long turn-around time for culture. If you request culture it will be provided. For more information, please see Johne's Disease Program: Sampling and Testing Options. Lag time for positive samples will be shorter. <b>A \$50/hour fee to cover additional laboratory handling of improperly collected, labelled, or shipped samples may be assessed.</b></p>							
Johne's Culture, Pooled	29.50 /sample	Bacteriology	M-W	35+ days	15g fresh feces. Please submit INDIVIDUALLY labeled fecal samples. Samples will be pooled in groups of 3 to 5 upon receipt. Any remaining samples will be tested by individual direct PCR. FILL SAMPLE CONTAINERS NO MORE THAN HALF FULL.	Individual wide mouth screw top containers, Unacceptable containers for fecal samples include flip-top milk vials, zip-lock baggies, exam gloves, glass jars, prescription bottles, or containers that are taped closed.	Refrigerate, DO NOT freeze. Ship promptly after collection in an insulated container with cold packs.
<p>Bovine only. For the culture of Mycobacterium avium sbsp. paratuberculosis in pooled fecal samples. Samples will be pooled upon receipt in the Laboratory. Samples pooled prior to arrival will not be accepted. Clearly indicate any samples for individual culture. Samples from high risk or clinically suspicious animals should not be included in pooled samples. Individual samples in confirmed positive pools will automatically be tested by Johne's Direct PCR and additional fees will accrue. Please see Johne's Disease Program: Sampling and Testing Options for more information. <b>A \$50/hour fee to cover additional laboratory handling of improperly collected, labelled, or shipped samples may be assessed.</b></p>							
Johne's Culture, Pooled (Non-NY)	47.00 /sample	Bacteriology	M-W	35+ days	15g fresh feces. Please submit INDIVIDUALLY labeled fecal samples. Samples will be pooled in groups of 3 to 5 upon receipt. Any remaining samples will be tested by individual direct PCR. FILL SAMPLE CONTAINERS NO MORE THAN HALF FULL.	Individual wide mouth screw top containers. Unacceptable containers for fecal samples include flip-top milk vials, zip-lock baggies, exam gloves, glass jars, prescription bottles, or containers that are taped closed.	Refrigerate, DO NOT freeze
<p>Bovine only. For the culture of Mycobacterium avium sbsp. paratuberculosis in pooled fecal samples. Samples will be pooled upon receipt in the Laboratory. Samples pooled prior to arrival will not be accepted. Clearly indicate any samples for individual culture. Samples from high risk or clinically suspicious animals should not be included in pooled samples. Individual samples in confirmed positive pools will automatically be tested by Johne's Direct PCR and additional fees will accrue. Please see Johne's Disease Program: Sampling and Testing Options for more information. <b>A \$50/hour fee to cover additional laboratory handling of improperly collected, labelled, or shipped samples may be assessed.</b></p>							
Johne's Culture, Pooled, NYSCHAP	23.00 /sample	Bacteriology	M-W	35+ days	15g fresh feces. Please submit INDIVIDUALLY labeled fecal samples. Samples will be pooled in groups of 3 to 5 upon receipt. Any remaining samples will be tested by individual direct PCR. FILL SAMPLE CONTAINERS NO MORE THAN HALF FULL.	Individual wide mouth screw top containers. Unacceptable containers for fecal samples include flip-top milk vials, zip-lock baggies, exam gloves, glass jars, prescription bottles, or containers that are taped closed	Refrigerate, DO NOT freeze. Ship promptly after collection in an insulated container with cold packs.
<p>Bovine only. For the culture of Mycobacterium avium sbsp. paratuberculosis in pooled fecal samples. Samples will be pooled upon receipt in the Laboratory. Samples pooled prior to arrival will not be accepted. Clearly indicate any samples for individual culture. Samples from high risk or clinically suspicious animals should not be included in pooled samples. Individual samples in confirmed positive pools will automatically be tested by Johne's Direct PCR and additional fees will accrue. Please see Johne's Disease Program: Sampling and Testing Options for more information. <b>A \$50/hour fee to cover additional laboratory handling of improperly collected, labelled, or shipped samples may be assessed.</b></p>							
Johne's Environmental Culture	20.00 /sample	Bacteriology	M-W	35+ days	REQUIRED: 10g of SIX separate composite environmental samples. FILL SAMPLE CONTAINERS NO MORE THAN HALF FULL.	Individual wide mouth screw top containers. Unacceptable containers for fecal samples include flip-top milk vials, zip-lock baggies, exam gloves, glass jars, prescription bottles, or containers that are taped closed	Refrigerate, DO NOT freeze. Ship promptly after collection in an insulated container with cold packs.
<p>For the culture of Mycobacterium avium sbsp. paratuberculosis in the environment. Samples MUST arrive as a set of six composite environmental samples to receive discount pricing. Please see Johne's Disease Program: Sampling and Testing Options for more information. <b>A \$50/hour fee to cover additional laboratory handling of improperly collected, labelled, or shipped samples may be assessed.</b></p>							

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Johne's Environmental Culture, Non-NY	43.00 /sample	Bacteriology	M-W	35+ days	REQUIRED: 10g of SIX separate composite environmental samples. FILL SAMPLE CONTAINERS NO MORE THAN HALF FULL.	Individual wide mouth screw top containers. Unacceptable containers for fecal samples include flip-top milk vials, zip-lock baggies, exam gloves, glass jars, prescription bottles, or containers that are taped closed	Refrigerate, DO NOT freeze. Ship promptly after collection in an insulated container with cold packs.
For the culture of <i>Mycobacterium avium</i> sbsp. <i>paratuberculosis</i> in the environment. Samples should arrive as a set of six composite environmental samples. Please see Johne's Disease Program: Sampling and Testing Options for more information. A \$50/hour fee to cover additional laboratory handling of improperly collected, labelled, or shipped samples may be assessed.							
Johne's Environmental Culture, NYSCHAP	11.50 /sample	Bacteriology	M-W	35+ days	REQUIRED: 10g of SIX separate composite environmental samples. FILL SAMPLE CONTAINERS NO MORE THAN HALF FULL.	Individual wide mouth screw top containers. Unacceptable containers for fecal samples include flip-top milk vials, zip-lock baggies, exam gloves, glass jars, prescription bottles, or containers that are taped closed	Refrigerate, DO NOT freeze. Ship promptly after collection in an insulated container with cold packs.
For the culture of <i>Mycobacterium avium</i> sbsp. <i>paratuberculosis</i> in the environment. Samples MUST arrive as a set of six composite environmental samples to receive discount pricing. Please see Johne's Disease Program: Sampling and Testing Options for more information.							
Johne's Fecal PCR	36.75	Molecular Diagnostics	M-F as needed	7-10 days	15 g feces. FILL SAMPLE CONTAINERS NO MORE THAN HALF FULL.	Fecal collection cup. Unacceptable containers for fecal samples include flip-top milk vials, zip-lock baggies, exam gloves, glass jars, prescription bottles, or containers that are taped closed.	Overnight and refrigerated. Ship promptly after collection in an insulated container with cold packs.
Bovine samples only This assay has been validated using samples from Johne's positive herds. Additional testing in test negative herds or true negative populations will be required to further define specificity. Additional info at Johne's Direct Fecal PCR Fact Sheet for Veterinarians. A \$50/hour fee to cover additional laboratory handling of improperly collected, labelled, or shipped samples may be assessed.							
Johne's Fecal PCR, NY	19.00	Molecular Diagnostics	M-F as needed	7-10 days	15 g feces. FILL SAMPLE CONTAINERS NO MORE THAN HALF FULL.	Fecal collection cup. Unacceptable containers for fecal samples include flip-top milk vials, zip-lock baggies, exam gloves, glass jars, prescription bottles, or containers that are taped closed.	Overnight and refrigerated. Ship promptly after collection in an insulated container with cold packs.
Bovine samples only Identified Clinical Suspects with other testing requested will be accessioned separately and are contract-eligible. Accession fee will apply. Contract will not apply for PCR only submissions. Additional info at Johne's Direct Fecal PCR Fact Sheet for Veterinarians A \$50/hour fee to cover additional laboratory handling of improperly collected, labelled, or shipped samples may be assessed.							
Johne's Fecal PCR, NYSCHAP	14.00	Molecular Diagnostics	M-F as needed	7-10 days	15 g feces. FILL SAMPLE CONTAINERS NO MORE THAN HALF FULL.	Fecal collection cup	Overnight and refrigerated. Ship promptly after collection in an insulated container with cold packs.
Bovine samples only Identified Clinical Suspects with other testing requested will be accessioned separately and are contract-eligible. Accession fee will apply. Contract will not apply for PCR only submissions. Additional info at Johne's Direct Fecal PCR Fact Sheet for Veterinarians A \$50/hour fee to cover additional laboratory handling of improperly collected, labelled, or shipped samples may be assessed.							
Johne's Milk ELISA	5.00	Serology	2-4 days/wk	2 days	individual cow milk samples with or without preservative; from Dairy One, or milk submitted by veterinarian	Dairy One milk vials or a leak-proof container with a secured top	Refrigerate
The Johne's milk ELISA tests milk for antibodies against <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> (MAP). For more information, see Appendix G							
Johne's Milk ELISA, NYSCHAP	5.00	Serology	2-4 days/wk	2 days	individual cow milk samples with or without preservative; from Dairy One, or milk submitted by veterinarian	Dairy One milk vials or a leak-proof container with a secured top	Refrigerate
The Johne's milk ELISA tests milk for antibodies against <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> (MAP). For more information, see Appendix G							
Knott's Heartworm	16.50	Parasitology	M-F	1-3 days	1 mL EDTA or heparin whole blood	sterile blood tube	Refrigerate
Used to assess microfilarial burden or to differentiate <i>Dirofilaria immitis</i> and <i>Dipetalonema reconditum</i> microfilariae. If an Occult heartworm antigen ELISA test is also desired, the laboratory can separate plasma from the EDTA or heparin whole blood (if sufficient volume) or a serum sample can be submitted. Please clearly indicate each test as a unique test request.							



## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Large Animal Chemistry Panel Equ and ruminant: Na, K, Cl, Bicarb, Anion Gap, BUN, Creat, Ca, P, Mg, TP, Alb, Glob, A/G ratio, Gluc, SDH, AST, GLDH, GGT, Tot/Dir/Ind Bilirubin, CK, Iron, TIBC, % Saturation For more information, see Chemistry Panel Information.	48.00	Clinical Pathology	M-Sa	1-2 days	2 mL separated serum or heparinized plasma	plain glass or plastic tube	Refrigerate
Large Animal Renal Panel Equ and ruminant: Na, K, Cl, Bicarb, Anion gap, Urea, Creat, Alb, Ca, P	28.00	Clinical Pathology	M-Sa	4 hours	1 mL separated serum	plain glass or plastic tube	Refrigerate
Lead, blood Lead, blood Cannot analyze in plasma or serum - Need whole blood. Do not use heparin separator tubes (gel tubes). For avian and exotics, contact Laboratory	35.00 /sample	Toxicology	M-F	2 days	1) EDTA whole blood (min .5 ml); 2) heparin whole blood (min .5 ml)	Heparinized or EDTA tube	1-2) Refrigerate. Ship in insulated container with ice pack.
Lead, liquids/fluids	30.00 /sample	Toxicology	M-F	1-2 days	1) urine; 2) water; 3) milk	1-3) sterile container	1-3) Refrigerate w/ cool pack
Lead, tissue/feed/other (Atomic Absorption Spectroscopy - Graphite Furnace)	45.00	Toxicology	M-F	3 days	1) 2g tissue; 2) 100g feed	1) sterile container; 2) any container	1) Refrigerate; 2) none
Leptospira MAT, 5 standard serovars For the detection of antibodies to Leptospira interrogans serovars Pomona, Hardjo, Icterohemorrhagiae/copenhageni, Grippityphosa, and Canicola by serum microagglutination. Please indicate any previous testing at the AHDC for accurate test result interpretations. Testing paired samples at an interval between 2-6 weeks between blood draws has more diagnostic significance than relying on the results from a single sample. See also Leptospira MAT, 7 serovars for additional serovar options that may be relevant. The first 5 serovars may qualify for New York State contract pricing Refer to Leptospira Microagglutination Testing at the AHDC for more information.	16.00 /5 serovars	Bacteriology	M, W, F	2-3 days	2.0 ml serum	Red top blood collection tube	Refrigerate. Ship overnight in an insulated container with ice packs
Leptospira MAT, 7 serovars For the detection of antibodies to Leptospira interrogans serovars Pomona, Hardjo, Icterohemorrhagiae/copenhageni, Grippityphosa, Canicola, Autumnalis and Bratislava by serum microagglutination. This test adds Leptospira interrogans serovars Bratislava and Autumnalis to the Leptospira MAT, standard 5 serovars. These two serovars are much less likely to be found in the United States, however, the AHDC has identified clinical samples with strongly elevated titers to one or both of these serovars in the absence of strong reactions to the other five. Testing for these two serovars may therefore be of diagnostic value. Please indicate any previous testing at the AHDC for accurate test result interpretations. Testing paired samples at an interval between 2-6 weeks between blood draws has more diagnostic significance than relying on the results from a single sample. Refer to [Leptospira Microagglutination Testing	30.00 /7 serovars	Bacteriology	M, W, F	2-3 days	2.0 ml serum	Red top blood collection tube	Refrigerate. Ship overnight in an insulated container with ice packs
Leptospira real-time PCR This assay targets the lipL32 gene encoding the major surface antigen of pathogenic Leptospira species.	36.75 per specimen tested	Molecular Diagnostics	M-F	3-5 days	1) Urine; or 2) Blood (EDTA whole blood); or 3) Urine and blood (EDTA whole blood); or 4) Kidney and/or liver; or 5) Fetal lung, kidney, liver, stomach or abomasal contents, placenta; or 6) Ocular fluids or 7) Bacterial culture. Refer to Testing Strategy information below.	Leak-proof container	Refrigerate. Ship in insulated container with freezer pack
Lipase	24.00 /sample	Clinical Pathology	M-Sa	1-2 days	1) 1 mL separated serum or heparinized plasma; 2) fluid	plain glass or plastic tube	Refrigerate
Listeria Culture For the culture of Listeria monocytogenes ONLY. Neurologic listeriosis is not typically associated with a bacteremia. CNS infection is believed to and has been shown to result from localized entry of the bacteria via defects in the oral mucosa, with initial entry into the CNS via the trigeminal nerve. A systemic or bacteremic phase is not usually associated with this process. CSF or brain would be required to identify neuroinfection in most cases. Blood can be a good sample in monogastrics and neonates with septicemia. Consider submission of inoculated Blood Culture media and requesting "Blood culture, aerobic" for testing a clinically ill live animal. Placenta and fetal tissues are appropriate specimens in abortions cases. Our laboratory does not provide food safety testing for listeria on milk or other foods. Samples submitted for testing should be related to clinical investigations. Antimicrobial susceptibilities are not included in the testing fee. Test is also part of Ruminant CNS Panel. Rabies testing should also be submitted to the NYS DOH Rabies laboratory for neurologic submissions. Preliminary results will be provided one day after sample processing begins.	22.00 /sample	Bacteriology	M-F	5-7 days	1) Encephalic: brain stem, cerebellum; 2) Visceral: liver, spleen, kidney; 3) Swab of 1 pr 2; 4) Silage	1-2) Sealed separate sterile containers; 3) Amies transport media (swab); 4) Sealed sterile container	1-3) Refrigerate

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Listeria monocytogenes PCR	36.75	Molecular Diagnostics	M-F as needed	3-5 days	1) tissue (brain stem from neurologic ruminants; fetal tissue from abortions); 2) Cerebrospinal fluid (CSF); 3) milk; 4) EDTA whole blood (monogastrics, suspect septicemic neonates)	Sterile, unbreakable leakproof container	Refrigerate; ship for next day delivery in insulated container with freezer pack(s).
<p>This is a polymerase chain reaction assay to extract, amplify and detect nucleic acid from Listeria bacteria in the sample submitted. Neurologic listeriosis is not typically associated with a bacteremia. CNS infection is believed to and has been shown to result from localized entry of the bacteria via defects in the oral mucosa, with initial entry into the CNS via the trigeminal nerve. A systemic or bacteremic phase is not usually associated with this process. CSF or brain would be required to identify neuroinfection in most cases. Blood can be a good sample in monogastrics and neonates with septicemia. Placenta and fetal tissues are appropriate specimens in abortions cases. Our laboratory does not provide food safety testing for listeria on milk or other foods. Milk samples submitted for testing should be related to clinical investigations. This service is performed pursuant to an agreement with Roche Molecular Systems.</p>							
Magnesium	8.50 /sample (blood, fluid)	Clinical Pathology	M-Sa	1-2 days	1) 1 mL separated serum or heparinized plasma; 2) fluid	plain glass or plastic tube	Refrigerate
Magnesium, urine	17.00	Clinical Pathology	M-Sa	1-2 days	1 mL urine	plain glass or plastic tube	Refrigerate
Mass Spectroscopy Confirmation	165.50 /sample	Toxicology	M-F	5 days	1) 10 mL heparin whole blood; 2) 20 - 50 mL urine; 3) tissue; 4) plant materials; 5) stomach contents	1) Heparinized tube; 2-5) sterile, clean, pesticide-free container	1-2) Refrigerate w/ cool pack; 3-5) freeze tissue
Freezer pack whole blood; SPECIAL REQUEST - PLEASE CONTACT LAB.							
Mass Spectroscopy Screen	331.00 per sample	Toxicology	M-F	7 days	1) 10 mL heparin whole blood; 2) 20 - 50 mL urine; 3) tissue; 4) plant materials; 5) stomach contents	1) Heparinized tube; 2-5) sterile, clean, pesticide-free container	1-2) Refrigerate w/ cool pack; 3-5) freeze tissue
Samples arriving at AHDC between October 27 and December 15 will be forwarded to a referral lab for analysis.							
Mercury	55.00	Toxicology	M-F	3 days	1) 2g tissue; 2) 100g feed; 3) 2 mL heparin whole blood	1) sterile container; 2) any container; 3) Heparinized or EDTA tube	1, 3) Refrigerate; 2) none
(Flameless Atomic Absorption) Cannot analyze in plasma or serum - Need whole blood. Do not use heparin separator tubes (gel tubes).							
Microscopic Feed Analysis	40.00 /hr	Toxicology	M-F	3 weeks	100g feed	any container	None
Mineral Panel (Tissue, Feed)	47.00	Toxicology	1x/wk	3-7 days	1) 2g tissue; 2) 100g feed. Do not submit serum or plasma.	1) sterile container; 2) any container	1) Refrigerate; 2) none
(Inductively Coupled Plasma Atomic Emissions Spectroscopy) Includes Ca, P, Mg, Na, K, Cu, Fe, Mn, Zn, Mo							
Mineral Panel, urine	33.00	Clinical Pathology	M-Sa	1-2 days	2 mL urine	plain glass or plastic tube	Refrigerate
Urine mineral panel includes Magnesium, Phosphorous, Creatinine and Calcium For additional info on Clin Path panels							
Mineral/Electrolytes Panel	21.00	Clinical Pathology	M-Sa	1-2 days	1 mL separated serum or heparinized plasma	plain glass or plastic tube	Refrigerate
Na, K, Cl, Bicarb, Anion Gap, Ca, P, Mg For additional info on Clin Path panels							
Mineral/Electrolytes Panel, urine	39.00	Clinical Pathology	M-Sa	1-2 days	1 mL urine	plain glass or plastic tube	Refrigerate
Na, K, Cl, Ca, P, Mg For additional info on Clin Path panels							
Mycobacterium avium avium PCR	36.75	Molecular Diagnostics	M-F as needed	3-5 days	1) culture (solid or liquid) or isolate; 2) tissue; 3) swab; 4) feces	unbreakable, leak-proof container	Refrigerate
Submit swabs in sterile, sealed vials with several drops of saline added, to prevent desiccation. Bacterial transport media are not appropriate for PCR assays. If culture is desired, submit a separate swab in an acceptable bacterial transport media. Cotton, plastic, wood-handled, and Dacron and other synthetic swabs are all acceptable for PCR-based assays. Calcium alginate swabs should be avoided.							
Mycobacterium avium complex PCR	36.75	Molecular Diagnostics	M-F as needed	3-5 days	1) culture (solid or liquid) or isolate; 2) tissue (min. 5 g); 3) swab	unbreakable, leak-proof container	Refrigerate
Submit swabs in sterile, sealed vials with several drops of saline added, to prevent desiccation. Bacterial transport media are not appropriate for PCR assays. If culture is desired, submit a separate swab in an acceptable bacterial transport media. Cotton, plastic, wood-handled, and Dacron and other synthetic swabs are all acceptable for PCR-based assays. Calcium alginate swabs should be avoided.							
Mycobacterium bovis or tuberculosis PCR	36.75	Molecular Diagnostics	prior arrangement		Prior arrangement	follow lab instructions	Refrigerate
Must obtain prior instructions to submit. Cultures MUST be shipped as Infectious Substance Category A, UN2814							

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VSS-WEB-077-V01

\* Each accession received will be charged a \$5.00 accessioning fee, in addition to the requested testing. Fees are subject to change without notice, please call the lab if you have any questions. Contract pricing available. For information please refer to <https://ahdc.vet.cornell.edu/billing/contract.cfm>  
\*\* "Lag Time" is counted in business days, unless otherwise specified, from the day the specimen arrives until the day the test result is reported, assuming there are no complications with testing.

Page 26 of 41

# Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Mycoplasma Count  Mycoplasma Quantification Non NYS Price: \$25.00	20.00	Quality Milk Production Services	M-F	7 days	1-15 ml milk	Clean, Sealed Container	Refrigerate or Freeze sample, Ship on ice
Mycoplasma Culture  For the culture of Mycoplasma species. *May qualify for New York State contract pricing. Antimicrobial susceptibilities are not applicable. Test is also part of the Reproductive Panel 4 and Respiratory Panel 6.	27.00 /sample	Bacteriology	M-F	5-10 days	1) Uterine, cervical or vaginal mucus; 2) Semen; 3) Tracheal washing or lung tissue; 4) Fluid (joint, pericardial, urine, etc.); 5) Eye; 6) Ear; 7) Aseptically collected swab of 1-6	1-6) Tissue or fluid in sealed sterile container 7) Swab in Amies transport media WITHOUT charcoal or other suitable mycoplasma culture transport media	1-6) Refrigerate
Mycoplasma Culture (QMPS)  For the isolation of Mycoplasma culture in milk.	5.50 NY; Out of state price - \$10.00	Quality Milk Production Services	M-F	7 days	1-15 ml milk	Clean, Sealed Container	Refrigerate or Freeze sample, Ship on ice
Mycotoxin Multiresidue Screen Aflatoxins (B1, B2, G1, G2), Ochratoxin A, Zearalenone, T-2 Toxin, DAS, DON and Sterigmatocystin The AHDC is no longer providing mycotoxin testing. We are recommending submission to the North Dakota State University Veterinary Diagnostic laboratory for mycotoxin testing. <a href="http://www.vdl.ndsu.edu/">http://www.vdl.ndsu.edu/</a>	165.50	Toxicology					
Necropsy After Hours Fee  An after-hours fee of \$50 will be applied when bodies are dropped off after 6pm during the week or between 3pm Saturday and 7:30am Monday morning. Additional STAT fees may apply if a necropsy is required at the time of drop off.	50.00	Anatomic Pathology					
Necropsy, 0.25 to 15 lbs  Includes cats, dogs, non-contract covered poultry, rabbits, ferrets, most birds, small animal abortions, and non-contract bovine and small ruminant abortions \$100 Stat fee will be charged for nights, weekends or holidays. Stat fees will be waived for zoonotic disease suspects or herd health outbreaks. Please call 607-253-3319 to arrange. For shipping instructions, please see Shipping Necropsy Specimens. To ship by UPS or FEDEX, package must weigh less than 150 lbs. They require notification prior to scheduled pickups for all packages exceeding 75 lbs.	125.00 in state; \$200 out of state. Additional STAT fee may apply. Contact lab for more information	Anatomic Pathology	M-F	2-12 days	carcass		
Necropsy, 101 to 500 lbs  Includes large dogs, calves, deer, adult sheep and goats. See comment for New York State animals. Call 607-253-3319 w/ questions.. NYS livestock owners only: see Necropsy, New York State Cases. Fee includes cost of all ancillary testing except Virus Isolation, Endocrinology, Toxicology, Comparative Coagulation, and Referrals. \$100 Stat fee will be charged for nights, weekends or holidays. Stat fees will be waived for zoonotic disease suspects or herd health outbreaks. Please call 607-253-3319 to arrange	360.00 in state; \$500 out of state. Additional STAT fee may apply. Contact lab for more information	Anatomic Pathology	M-F	2-12 days	carcass		
Necropsy, greater than 500 lbs  Includes large hoofstock, large carnivores Call 607-253-3319 w/ questions.. NYS livestock owners only: see Necropsy, New York State Cases. Fee includes cost of all ancillary testing except Virus Isolation, Endocrinology, Toxicology, Comparative Coagulation, and Referrals. \$100 Stat fee will be charged for nights, weekends or holidays. Stat fees will be waived for zoonotic disease suspects or herd health outbreaks. Please call 607-253-3319 to arrange.	410.00 in state; \$550 out of state. Additional STAT fee may apply. Contact lab for more information	Anatomic Pathology	M-F	2-12 days	carcass		
Nematode Larval Culture Requires 14-day lag time from submission; Fecal Quantitative test done first to determine need	55.00	Parasitology	M-F	14+ days	15g fresh fecal sample	wide mouth leak-proof	Do not refrigerate sample

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Neospora IFA  Indirect Fluorescent antibody test Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze. Paired serum samples are recommended for optimal diagnostic test interpretation.	16.50	Virology	1x/wk	2-5 days	1) 2 mL serum; 2) CSF (canine only)	1) red top blood collection tube; 2) sterile container	It is recommended to ship samples with an ice pack.
Nitrate/Nitrite, liquids/fluids	24.00 /sample	Toxicology	M-F	2 days	1) water; 2) serum; or 3) transfer heparin or EDTA plasma to a red top tube	1) sterile leak-proof container; 2-3) red top blood collection tube (no gel separator tubes, please)	1-3) Refrigerate w/ cool pack
Nitrate/Nitrite, solids	33.00 /sample	Toxicology	M-F	2 days	1) stomach or rumen contents; 2) feeds	1) sterile leak-proof container; 2) leak-proof zip-lock bag	1-2) Freeze
Non-Esterified Fatty Acid (NEFA)  NEFA for additional info on Clin Path panels	13.00	Clinical Pathology	M-Sa	1-2 days	1) 1 mL separated serum; 2) EDTA plasma	1) red top blood collection tube; 2) purple top collection tube	Refrigerate
Occult Blood  (Coprology) Do not allow coolant to come in contact with specimen; ship Overnight	16.00	Clinical Pathology	M-Sa	1-3 days	feces	sterile container	Refrigerate
Organochlorine Insecticide Screen  Samples arriving at AHDC between October 27 and December 15 will be forwarded to a referral lab for analysis.	331.00 /sample	Toxicology	M-F	5 days	1) 10 - 20 mL heparin whole blood; 2) 50 mL urine; 3) 50g stomach or rumen contents; 4) 50g liver; 5) 200g other materials	1) Heparinized tube, no gel clot; 2) sterile, leak-proof container; 3-5) sterile glass container	1-5) Refrigerate w/ cool pack
Organophosphate/Carbamate Insecticide Screen  Samples arriving at AHDC between October 27 and December 15 will be forwarded to a referral lab for analysis.	331.00 per sample	Toxicology	M-F	5 days	1) 10 - 20 mL heparin whole blood; 2) 50 mL urine; 3) 50g stomach or rumen contents; 4) 50g liver; 5) 200g other materials	1) Heparinized tube, no gel clot; 2) sterile, leak-proof container; 3-5) sterile glass container	1-5) Refrigerate w/ cool pack
Osmolality  Do not allow coolant to come in contact with specimen	19.50 /sample	Clinical Pathology	M-Sa	1-2 days	1) 1 mL separated serum or heparinized plasma; 2) fluid; 3) 2 mL urine; 4) milk replacer	plain glass or plastic tube	Refrigerate
Packed Cell Volume  PCV or HCT (Hematocrit) Do not allow coolant to come in contact with specimen; ship Overnight	7.00	Clinical Pathology	M-Sa	1-2 days	EDTA blood (> 1/2 full)	lavender top tube	Refrigerate
Papular Stomatitis Virus PCR  The Parapoxvirus PCR detects parapoxviruses from multiple species. For cattle the virus species would be predominantly papular stomatitis virus. Upon special request and an additional fee, sequence analysis can be done to confirm species identity.	36.75	Virology	As needed	2-3 days	swab of ulcerated area; skin biopsy; "scabs"	non-breakable container	Refrigerate. Ship in insulated container with ice pack
Parapox virus PCR  The Parapoxvirus PCR detects parapoxviruses from multiple species. For samples originating from ovines, the virus of concern is contagious ecthyma (CE) virus or ORF. For cattle the virus species would be predominantly papular stomatitis virus. Upon special request and an additional fee, sequence analysis can be done to confirm species identity.		Virology	As needed	2-3 days	swab of ulcerated area; skin biopsy;"scabs"	non-breakable container	Refrigerate. Ship in insulated container with ice pack.

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Parasite Identification	28.00	Parasitology	M-F	1-7 days	whole parasites including worms or arthropods; punch biopsy, skin or conjunctival snips, fresh tissue for worm identification; impression smears; stained tissue section slides; environmental samples	plastic leak proof container, such as blood tube, appropriate for sample. Submit fresh, in 70% ETOH or 10% formalin, depending upon the sample.	Refrigerate if not fixed
<p>Endo- and ecto- parasites All ticks submitted for PCR (Lyme, Anaplasma, Ehrlichia) must be identified prior to testing. A biopsy is examined directly or undergoes pepsin digestion to recover nematodes. Gastrointestinal contents and other tissues such as lung are examined and processed as needed to collect and identify parasites present. Intestinal smears are made from fresh, non-preserved intestinal sections and are used to identify non-patent coccidian infections postmortem. Other samples that can be submitted for parasite identification include: Biopsies from tissues that may contain parasites; Necropsy tissues, such as sections of organs and intestines with contents; Fluids such as tracheal and cloacal washes, duodenal aspirates, urine, blood; Histological sections on slides; Free living worms or arthropods found on animals, in residences, in feed samples and environmental samples such as soil and composted material.</p>							
Pericardial Fluid Cytology	50.00	Clinical Pathology	M - F	1 business day	1) Pericardial fluid in EDTA AND 2) Smears (at least 2-3 unstained smears preferred); 3) Also submit a red-top tube if culture is anticipated.	1) Lavender-top tube; (+/- red-top tube); 2) Frosted-end slides	Refrigerate fluids only; ship in insulated container with freezer pack for next day delivery. Hold smears at room temperature; protect from chilling/coolant by insulating separately during shipment.
<p>Report includes - Specimen type and site (provided by submitter), Volume, Color, Turbidity, Total Protein, Nucleated cell count, RBC count, Smear type, Smear description, Smear Interpretation With pericardial fluid samples, please also submit 2-3 freshly prepared smears of the fluid and specify smear type, i.e. direct or sediment, on the smears and on the cytology submission form. Do not allow coolant to come in contact with specimen; ship overnight. STAT service available for same day results (extra charges apply). For additional information see Cytology Testing</p>							
Peritoneal Fluid Cytology	50.00	Clinical Pathology	M - F	1 business day	1) Peritoneal fluid in EDTA; 2) Smears (at least 2-3 unstained smears preferred); 3) Also submit a red-top tube if culture is anticipated.	1) Lavender-top tube; (+/- red-top tube); 2) Frosted-end slides	Refrigerate fluids only, DO NOT refrigerate smears
<p>Report includes - Specimen type and site (provided by submitter), Volume, Color, Turbidity, Total Protein, Nucleated cell count, RBC count, Smear type, Smear description, Smear Interpretation With peritoneal fluid samples, please also submit 2-3 freshly prepared smears of the fluid and specify smear type, i.e. direct or sediment, on the smears and on the cytology submission form. Do not allow coolant to come in contact with specimen; ship overnight. STAT service available for same day results (extra charges apply). For additional information see Cytology Testing</p>							
Pesticide Screen	331.00 /sample	Toxicology	M-F	5 days	1) 20 heparin whole blood; 2) 50 mL urine; 3) 500 mL water; 4) 50g liver; 5) stomach contents; 6) 100g feed; 7) plant material	1) Heparinized tube, no gel clot; 2-7) sterile leak-proof container;	1-3) Refrigerate w/ cool pack; 4-7) freeze
<p>Samples arriving at AHDC between October 27 and December 15 will be forwarded to a referral lab for analysis.</p>							
Phenobarbital	33.00	Clinical Pathology	M-Sa	1 day	1) 1 mL Serum, 2) EDTA plasma, 3) Heparin plasma	1) Red top tube, 2) Corvac, 3) Lavender top tube, 4) Green top tube	Refrigerate, ship on ice packs
<p>Phenobarbital is used for treatment for forms of epilepsy. This test measures the amount of phenobarbital in the sample. Please refer to the Phenobarbital Chemistry Serum Test Expanded Information Sheet for more information.</p>							
Phosphate (Phosphorus)	8.50 /sample (blood, fluid)	Clinical Pathology	M-Sa	1-2 days	1) 1 mL separated serum or heparinized plasma; 2) fluid	plain glass or plastic tube	Refrigerate
Phosphate (Phosphorus), urine	16.50	Clinical Pathology	M-Sa	1-2 days	1 mL urine	plain glass or plastic tube	Refrigerate
Platelet Aggregation	97.00	Comparative Coagulation	---	---	requires special arrangement with lab		
<p>Combination of individual tests Special arrangement - contact laboratory to schedule testing</p>							
Platelet Count	18.00	Clinical Pathology	M-Sa	1-2 days	1) EDTA blood (> 1/2 full); 2) 2 dry (unfixed, unstained) blood smears	1) lavender top tube; 2) frosted-end slides	Refrigerate
<p>Do not allow coolant to come in contact with specimen or slides; ship Overnight</p>							
Platelet Function	52.00	Comparative Coagulation		2-3 days	requires referral appointment		
<p>Combination of individual tests Special arrangement - contact laboratory to schedule testing</p>							

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Pleural Fluid Cytology	50.00	Clinical Pathology	M - F	1 business day	1) Pleural fluid in EDTA AND 2) Smears (at least 2-3 unstained smears preferred); 3) Also submit a red-top tube if culture is anticipated.	1) Lavender-top tube; (+/- red-top tube); 2) Frosted-end slides	Refrigerate fluids only; ship in insulated container with freezer pack for next day delivery. Hold smears at room temperature; protect from chilling/coolant by insulating separately during shipment.
Report includes - Specimen type and site (provided by submitter), Volume, Color, Turbidity, Total Protein, Nucleated cell count, RBC count, Smear type, Smear description, Smear Interpretation With pleural fluid samples, please also submit 2-3 freshly prepared smears of the fluid and specify smear type, i.e. direct or sediment, on the smears and on the cytology submission form. Do not allow coolant to come in contact with specimen; ship overnight. STAT service available for same day results (extra charges apply). For additional information see Cytology Testing							
Potassium	8.50 /sample (blood, fluid)	Clinical Pathology	M-Sa	1-2 days	1) 1 mL separated serum or heparinized plasma; 2) fluid	plain glass or plastic tube	Refrigerate
Potassium, urine	17.00	Clinical Pathology	M-Sa	1-2 days	1 mL urine	plain glass or plastic tube	Refrigerate
PreAnesthesia Panel, Large Animal	30.00 /sample	Clinical Pathology	M-Sa	1-2 days	2 mL separated serum or heparinized plasma	plain glass or plastic tube	Refrigerate
for additional info on Chemistry Panel Information							
Prekallikrein Screen	14.50	Comparative Coagulation	M-F	same day	citrate plasma	plastic or siliconized glass tube in styrofoam box	Refrigerate/ship on cold pack
Ship Overnight: requires aPTT on same sample; For additional info on Submission Guidelines, or see Comp Coag web page							
Progesterone baseline	14.50	Endocrinology	see comment	1-3 days	1 - 1.5 mL serum; separated within 2 hrs after blood collection; avoid SST tubes	plastic or glass tube	Refrigerate
Dogs and llamas tested daily M-F; other species, M, W, F. For more information, see Endocrinology Testing and Protocols							
Progesterone baseline - RIA - Bovine	14.50	Endocrinology	M, W, F	1-3 days	200 uL serum or plasma	Red top or purple top blood collection tube	Refrigerate. Ship in insulated container with ice pack.
Bovine only							
Prothrombin Consumption Index	40.00	Comparative Coagulation	Th-F	1-2 days	paired citrate plasma and serum samples	plastic or siliconized glass tube in styrofoam box	Refrigerate/ship on cold pack
Ship Overnight; tested by special arrangement: contact laboratory for instructions							
Prothrombin Time (PT)	14.50	Comparative Coagulation	M-F	same day	1 mL separated citrate plasma	plastic or siliconized glass tube in styrofoam box	Refrigerate/ship on cold pack
Ship Overnight; for additional info on Submission Guidelines, or see Comp Coag web page							
Pseudocowpox Virus PCR	36.75	Virology	As needed	2-3 days	swab of ulcerated area; skin biopsy;"scabs"	non-breakable container	Refrigerate. Ship in insulated container with ice pack.
The Parapoxvirus PCR detects parapoxviruses from multiple species. For cattle the virus species would be predominantly papular stomatitis virus. Upon special request and an additional fee, sequence analysis can be done to confirm species identity.							
Rabies Brain Extraction	51.00	Anatomic Pathology	M-Sa	24 hrs, follow head or whole body		leak-proof container	Refrigerate, do not freeze
This procedure is intended for removal of the brain from the skull for further rabies testing and other diagnostics. A Rabies History Form is required for all rabies suspect cases. Submitting the head or carcass to the Anatomic Pathology service for brain extraction in rabies suspect cases will be followed by shipment of brain tissue to the NYS Dept of Health Lab for Rabies testing. Consideration for field collection of brain specimens and direct shipment to the NYSDOH by attending veterinarians should be considered in case involving human exposure, especially when weekends and holidays will result in further shipping delays. See these links for further information on collection and submission of appropriate specimens for direct submission.							
Red Blood Cell (RBC) Count, Total	7.00	Clinical Pathology	M-Sa	1-2 days	EDTA blood (> 1/2 full)	lavender top tube	Refrigerate
Do not allow coolant to come in contact with specimen; Ship Overnight.							
Red Blood Cell (RBC), Parasites	12.00	Clinical Pathology	M-Sa	1-2 days	EDTA blood (> 1/2 full)	lavender top tube	Refrigerate
This test is performed using Wright's (Giemsa) Stain. Do not allow coolant to come in contact with specimen; ship Overnight							

Last Updated: 4/3/2017  
VSS-WEB-077-V01

\* Each accession received will be charged a \$5.00 accessioning fee, in addition to the requested testing. Fees are subject to change without notice, please call the lab if you have any questions. Contract pricing available. For information please refer to <https://ahdc.vet.cornell.edu/billing/contract.cfm>  
\*\* "Lag Time" is counted in business days, unless otherwise specified, from the day the specimen arrives until the day the test result is reported, assuming there are no complications with testing.

Page 30 of 41

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Ref: Aldosterone	40.00 (+ referral fee; see comment)	Referral	Mon and Thurs	4-7 Business	1mL EDTA plasma or serum; serum or EDTA plasma should be separated from clot or cells by centrifugation, respectively, within 30 minutes, and transferred to plain tube with no additives.	Red top, Purple top, or Tiger top blood collection tube	Refrigerate. Ship for next day delivery in insulated container with freezer pack(s)
Assay to quantitate aldosterone levels in EDTA plasma or serum. Can test a single sample for baseline values or can provide pre and post ACTH samples as ACT stimulation test. For All Species: Pre or post samples can be serum, plasma or one of each. Send via overnight courier Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab.							
Ref: Anaplasmosis CF	20.50 (+ referral fee; see comment)	Referral	Thurs.	1 - 7 days	2 mL Serum	Red top blood collection tube or screw top vial (preferred)	Refrigerate. Ship for next day delivery in insulated container with freezer pack(s).
Complement Fixation assay for detecting antibodies against Anaplasma marginale in bovine serum samples. This test is available for Bovidae and for EXPORT purposes ONLY. Send separated serum via overnight courier. Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab. This assay is started at the referral lab on Thursdays only. If sample arrives in their lab for testing on Thursday morning, the test is resulted by Friday afternoon. Allow for shipping from AHDC to referral lab.							
Ref: Anaplasmosis Marginale PCR (Bovine)	48.50 (+ referral fee; see comment)	Referral	Tuesday and Friday	3-5 business	2ml EDTA Whole Blood or 2 inch section of Spleen or Liver	EDTA Tube for blood, sterile collection container for tissue	Refrigerate. Ship in insulated container with ice pack.
This test detects the DNA of Anaplasma marginale, the agent of bovine Anaplasmosis. This test is not designed to detect other Anaplasma Species. This test can be performed on Bovine samples only. Send via overnight courier. Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab.							
Ref: Aspergillus Panel	96.00	Referral	M - F		0.5 ml heparinized plasma	Green top blood collection tube	Refrigerate, ship sample over night in insulated container with freezer packs.
This panel includes Aspergillus Antibody Elisa, Electrophoresis to Quantitate host plasma proteins, and galactomannan assay for a dominant Aspergillus antigen. Send via overnight courier Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab. Testing performed on Avians and Mammals. Sample should be 5 days old or less at time of testing. Do not collect and ship to AHDC prior to 3 day weekend or other conditions which will not allow delivery to referral lab for testing by 5 days post collection. For test interpretations, please see Testing for Avian Aspergillus							
Ref: Babesia Gibsoni Giemsa Smr slides, Exp	19.00 (+ referral fee; see comment)	Referral	Monday-Friday	2 days	1-2 Unstained, air-dried blood smear slides made from EDTA Whole Blood	slide mailer	Hold at room temperature. Ship at room temperature. Protect from cold temperatures with insulation.
Evaluation of blood smears for hemoparasites/ hemotropic bacteria. Also known as Hemoparasite exam – Wright Giemsa Stain <b>Submitter must make blood smear slides. Do not submit EDTA whole blood. Testing can be performed on the following: Amphibian, Avian, Bovine, Canine, Caprine, Cervid, Equine, Exotic, Feline, Ovine, Porcine, Reptile, and Rodents. Send via overnight courier. Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab.</b>							
Ref: Babesia PCR	60.00 (+ referral fee; see comment)	Referral	Tues; Thurs	5-7 days	2ml EDTA Whole Blood	Purple Top Collection Container	Refrigerate. Ship in insulated container with freezer packs to arrive next day.
This is a polymerase chain reaction assay which amplifies and detects target nucleic acid sequences of the Babesia genus. This laboratory performs nucleic acid sequencing for all positive samples, verifying detection and providing identification to the species and occasionally strain level. Send via overnight courier Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab. This test can be performed on all species.							
Ref: Bartonella PCR	60.00 (+ referral fee; see comment)	Referral	Tues, Thurs	5-7 days	2 mL EDTA whole blood	Purple Top blood Collection Container	Refrigerate, send via overnight delivery; insulated container with freezer pack(s)
This is a polymerase chain reaction assay which amplifies and detects target nucleic acid sequences of the Bartonella genus. This laboratory performs nucleic acid sequencing for all positive samples, verifying detection and providing identification to the species and occasionally strain level. Sample required is EDTA whole blood. This test can be performed on all species. Send via overnight courier Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab.							

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Ref: Bluetongue PCR  PCR to detect the Bluetongue virus Sample preferred is EDTA whole blood  Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab	62.40 (+ referral fee; see comment)	Referral	varies	3-5 days	4 mL EDTA or heparinized whole blood		Refrigerate
Ref: Brucella abortus/suis Fluorescent Polarization Assay  This is an antibody detection assay that is used primarily for regulatory diagnostic investigations or for export purposes. It detects antibodies against Brucella abortus or Brucella suis Test can be performed on large animals. Send via overnight courier Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab.	33.60	Referral	Mon, Thurs	5-7 days	2mL Serum	Red top blood collection tube.	Refrigerate; ship via overnight delivery in insulated container with freezer packs.
Ref: Cholinesterase(brain)  This assay tests for enzyme activity in a brain sample. Any factor that interferes with enzyme activity will affect the outcome of the results. Specimen should be as fresh as possible Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab	48.00 (+ referral fee; see comment)	Referral	M-F	3-5 days	Brain Tissue/Retina. Split brain into two equal halves sagittally to get a representative hemisphere. Retina-whole eye.	Plastic bag	Keep refrigerated at all times. Ship overnight with ice pack.
Ref: Cyclosporine  Test to detect cyclosporin levels. This test can be performed on Bovine, Canine, Equine, Feline, Ferrets, Fruit Bats, Ovine, Porcine, Primate samples only. Send via overnight courier. Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab.	66.00 (+ referral fee; see comment)	Referral	W, F	3-5 business	1 mL EDTA whole blood	Lavender top blood collection tube	Refrigerate; DO NOT FREEZE. Ship for next day delivery in insulated container with freezer pack(s)
Ref: Digoxin  Checking Digoxin levels in the blood Send via overnight courier Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab. Do not store in rubber topped tubes as digoxin will bind to the rubber. Fasting is recommended, but not required.	60.00 (+ referral fee; see comment)	Referral	Run when received	2-4 business	1 mL serum	red top blood collection tube; GLASS vial	Refrigerate. Ship in insulated container with ice pack.
Ref: FISH Fluorescent In-Situ Hybridization  Flourescent probe binds to bacterial ribosomes in tissue. Detected with flourescent microscope. A \$15 handling fee will be added to each sample, so the total price for a single tissue is \$130. Additional tissues will be billed at \$50 for each additional tissue. For specific information regarding samples, instructions and forms, please see FISH Fluorescent In-Situ Hybridization. Research questions should be directed directly to Simpson Laboratory (607-253-3567).	115.00 + in-house referral fee. See comment	Referral	Tues or Wed	5-10 days	5 unstained fixed tissue slides. If wet fixed tissue or paraffin embedded fixed tissue blocks are submitted, 5 unstained slides per tissue will be prepared for \$25 per tissue.	Slide Mailer; Leakproof, unbreakable container for wet fixed tissue.	Room Temperature; protect wet fixed tissue from freezing
Ref: Freemartin, Bovine  Test to determine if female co-twin with a male is fertile Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab	60.50 (+ referral fee; see comment)	Referral	Tu, Th	5-7 days	5 mL EDTA whole blood	Insulated	Ambient
Ref: Insulin Growth Factor-1  Send via overnight courier Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab. Most species can be tested.	75.60 (+ referral fee; see comment)	Referral	Wednesday	4 - 9 business	0.5 mL Serum or Plasma	Red Top or Purple Top, SST	Refrigerate. Ship in insulated container with cold pack
Ref: Keppra/Levetiracetam  Checking Keppra levels in the blood Send via overnight courier Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab. Fasting is recommended, but not required.	84.00 (+ referral fee; see comment)	Referral	Tues, Thurs	3-4 business	1 mL serum	Red top blood collection tube	Refrigerate. Ship in insulated container with ice pack



## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Ref: Leishmania PCR Sample Required is EDTA whole blood. Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab	60.00 (+ referral fee; see comment)	Referral	M-F	5-7 days	2 mL EDTA whole blood	Insulated	Refrigerate or ship on cold pack
Ref: Malignant Catarrhal Fever IPT This is an immunoperoxidase test designed to detect antibodies to the MCF virus. This serology test is indicated for clinical suspects. This test cross reacts with both Alcelaphine-associated and sheep-associated virus antibodies. All antibody positive IPT samples will be tested by the VN, resulting in two charges (IPT and VN). A clinical suspect is expected to be positive on the IPT test and negative on the VN test. Please call the laboratory before sending sample. Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab	20.40 (+ referral fee; see comment)	Referral	Wednesday	5-7 days	2 mL serum	red top tube	Refrigerate. Ship in insulated container with ice packs
Ref: MCF PCR PCR test to detect the Herpes viruses recognized to cause Malignant Catarrhal Fever. This PCR assay differentiates between alcelaphine herpesvirus 1 and ovine herpesvirus 2 The sample required from a live animal is EDTA whole blood. Send via overnight courier. Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab.	67.20 (+ referral fee; see comment)	Referral	M-F	7-14 days	EDTA Whole Blood or Tissue	Insulated	Refrigerate (not frozen)
Ref: Mycobacterial Culture (Acid Fast TB) Test for presence of tuberculosis. This test does not speciate non-TB Mycobacterium species Send via USPO in NVSL mailer. Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab. This test is intended to detect Mycobacterium tuberculosis as a reportable disease.	58.00 (+ referral fee; see comment)	Referral	M-F	30-120 days	Tissue	Mycobacterium box	Ambient
Ref: Mycobacterial PCR PCR for Mycobacterium species. Not for M. bovis or M. tuberculosis suspects. Formalin fixed tissue or paraffin blocks should not be decalcified. Tissue should be in wet formalin less than 10 days. Acid fast bacteria must be present on histopathology to perform PCR testing. Fresh tissue should be tested by requesting Mycobacterium Culture rather than PCR to increase testing sensitivity.	246.00 (+ referral fee; see comment)	Referral	M-F	12-14 Busine:	Fixed tissue containing lesion	Sterile, leakproof, unbreakable container or paraffin block	Room temperature for fixed tissue and paraffin block
Ref: Mycobacterium Culture ID All culture isolates (positive cultures for mycobacterium) will require additional speciation at a fee of \$70.00 to identify the Mycobacteria further. Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab	48.00 (+ referral fee; see comment)	Referral	Mon - Fri	60 - 120 days	Fresh tissue	Sterile, leakproof, unbreakable container	Ship for next day delivery in an insulated container with freezer packs.
Ref: Parathyroid Hormone Used in diagnosis of: Calcium metabolic disorders, Hypoparathyroidism, Hyperparathyroidism – Primary or Secondary, Malignancy, Vitamin D disorders, Renal disease, Hypercalcemia, Hypocalcemia. Also used to monitor calcitriol therapy. This test can be performed on samples from all species. Send via overnight courier. Avoid Hemolysis and lipemia. Fast animal overnight before taking sample. Ionized Calcium is automatically added to all Parathyroid Hormone requests at no additional charge. Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab.	57.60 (+ referral fee; see comment)	Referral	M-F	2-6 Business	1 mL serum only	Red top blood collection tubetube	Refrigerate. Ship for next day delivery in insulated container with freezer pack(s)
Ref: Piroplasmosis CF This is a complement fixation assay for the detection of antibodies against the agents listed here: Bovine: panel includes: Babesia bovis and B. bigemina Equine: panel includes: Babesia caballi and Babesia(Theileria) equi This test can be performed on Bovine and Equine samples only. Send via overnight courier. Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab.	43.20 (+ referral fee; see comment)	Referral	M-F	9-12 Busines:	2 mL serum	Red top blood tube	Refrigerate. Ship in insulated container with ice pack
Ref: Piroplasmosis IFA Same as Piro CF Send via overnight courier/Done on equine and bovine. Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab	36.00 (+ referral fee; see comment)	Referral	M-F	~5-7 days	2 mL serum	Insulated	Refrigerate

# Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Ref: QMPS: DMSCC Testing, Special Milk Measurement Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab	6.00 (+ referral fee; Referral see comment)						
Ref: Quantitative Calculi/Urinary This test provides an analysis of the crystalline composition of the urolith(urinary stone) Send via overnight courier Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab	38.00 (+ referral fee; see comment)	Referral	M-F	4-6 business	Stone	Baylor Stone Collection Cup	None
Ref: Rabies Titer  This test is not used for export testing. This test provides an endpoint titer. Please see comment above regarding export testing. This test can be performed on all species. Send via overnight courier. Can use heat inactivated serum, must be noted on the form. Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab. The AHDC does not refer Rabies titers for export testing due to requirements of the testing lab. Please contact Kansas State Veterinary Diagnostic Lab directly at 785-532-4483.	80.04 (+ referral fee; see comment)	Referral	M, Th	23-30 Busine:	2 mL serum	Red top blood collection tube	Refrigerate. Ship for next day delivery in insulated container with freezer pack(s).
Ref: Stone Analysis - Minnesota Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab	0.00 (+ referral fee; Referral see comment)		M-F	10-14 days	Stone	Unbreakable container	
Ref: Theophylline Checking Theophylline levels in the blood Send via overnight courier Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab. Please do not use Serum Separator Tubes. Fasting is recommended, but not required	60.00 (+ referral fee; see comment)	Referral	Run as received	2-4 business	1 mL serum	red top blood collection tube; glass or plastic vial	Refrigerate. Ship in insulated container with ice pack
Ref: Tick Panel - PCR PCR Panel includes: PCR testing for known pathogens in six genera: Babesia, Bartonella, Anaplasma, Ehrlichia, Rickettsia, and hemotropic Mycoplasma. All positive PCR results are verified by performing sequencing analysis which also takes identification to the species and sometimes strain level. This test can be performed on most species. Call lab with exotic animals. Send via overnight courier. Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab.	150.00 (+ referral fee; see comment)	Referral	Batched weekly	9-12 business	2 mL EDTA whole blood	EDTA blood Tube	Refrigerate, ship for next day delivery in insulated container with freezer pack(s)
Ref: Tritrichomonas foetus PCR Please see male and female sample collection instructions for Tritrichomonas sampling and instructions for using Inpouch mediasystem. Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab	42.00 (+ referral fee; see comment)	Referral	Tu, Th	3-5 days	bovine - Tritrichomonas transport media (e.g. InPouch) inoculated with preputial (male) or cervical (female) sample cats - 1-2 grams feces	InPouch media system - bovine samples unbreakable, leakproof tube or cup-feline samples	Room temperature, insulate from temperature extremes
Ref: Vitamin D Profile Assay for 25- Hydroxyvitamin D This test can be performed on most species. Send via overnight courier. Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab.	76.80 (+ referral fee; see comment)	Referral	Monday and Friday	2-8 business	1.5 mL Serum or Heparinized plasma(not EDTA plasma)	Red Top, Purple Top, Green Top or SST blood tubes	Refrigerate, ship for next day delivery in insulated container with freezer pack(s)
Ref: Vitamin D, 25-hyd 1. To identify Vitamin D toxicity or deficiency. A. Will pick up metabolites of cholecalciferol (rat poisons, vitamin D supplements). B. Will not pick up Vitamin D toxicity due to calcitriol (Rocaltrol) or calcipotriene (Dovonex - anti-psoriasis cream). 2. To identify Vitamin D deficiency in animals eating homemade diets, or for certain species, especially Llamas/Alpacas, lizards, primates, and other zoo animals ?This test can be performed on appropriate samples from all species. Send via overnight courier. Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab.	56.40 (+ referral fee; see comment)	Referral	Monday and Friday	3-9 Business	0.5 mL Serum or Plasma (Heparinized and EDTA is accepted)	Red Top, Purple Top, Green Top or SST blood tubes	Red Top, Purple Top, Green Top or SST blood collection tubes

# Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Ref:Anaplasma phagocytophilum (Ehrlichia Equi) IFA  Detects antibodies against Anaplasma phagocytophilum (formerly known as Ehrlichia equi) in serum via indirect fluorescent antibody test; tested at 1:64, 1:128, 1:256, 1:512, 1:1024, and 1:2048 dilutions. This test can be performed on Equine, Feline, Canine, Ovine, Bovine, Caprine, and Rabbit samples only. Send via overnight courier Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab.	37.00 (+ referral fee; see comment)	Referral	M-F	4-6 business	2 mL serum	Red top blood collection tube	Refrigerate. Ship for next day delivery in insulated container with freezer pack(s)
Ref-Q: Antibiotic Residue  Antibiotic Residue Test by DairyOne Referral test fee is set by the referring lab and may change without notice; also, a \$10.50 handling fee is added for each accession sent.	3.00 (+ referral fee; see comment)	Quality Milk Production Services	2 days per week	2 days	milk	clean,sterile container	Do Not Freeze
Ref-Q: Lab Pasteurized Count  Non NYS Price: \$6.00 Referral test fee is set by the referring lab and may change without notice; also, a \$10.50 handling fee is added for each accession sent.	5.25 NY state; (+ referral fee; see comment)	Quality Milk Production Services	M-F	24-48 hrs	2 oz Milk	Clean, Sealed Container	Refrigerate, Ship on ice, Do NOT freeze
Ref-Q: Milk Urea Nitrogen (MUN)  MUN test done by DairyOne Referral test fee is set by the referring lab and may change without notice; also, a \$10.50 handling fee is added for each accession sent.	1.50 (+ referral fee; see comment)	Quality Milk Production Services	2 days per week	2 days	milk	clean, sterile container	Do Not Freeze
Ref-Q: Pre-Incubation Count  Pre-Incubation Count (PIC) Non NYS Price: \$6.00 Referral test fee is set by the referring lab and may change without notice; also, a \$10.50 handling fee is added for each accession sent.	5.25 NY state, \$6.00 out of state (+ referral fee; see comment)	Quality Milk Production Services	M=F	24-48 hrs	2 oz Milk	Clean, Sealed Container	Refrigerate, Ship on ice, Do NOT freeze
Ref-Q: Somatic Cell Count  preservative as needed Referral test fee is set by the referring lab and may change without notice; also, a \$10.50 handling fee is added for each accession sent.	1.00 (+ referral fee; see comment)	Quality Milk Production Services	M-F	24 hrs	> or = 60 ml Milk	Clean, Sealed Container	Refrigerate, Ship on ice, Do NOT freeze
Ref-Q: Standard Plate Count  Standard Plate Count (SPC) Non NYS Price: \$6.00 Referral test fee is set by the referring lab and may change without notice; also, a \$10.50 handling fee is added for each accession sent.	5.25 NY State fee (+ referral fee; see comment)	Quality Milk Production Services	M-F	24-48 hrs	2 oz Milk	Clean, Sealed Container	Refrigerate, Ship on ice, Do NOT freeze
REF-Q:Total Coliform Count  Total Coliform Count (TCC) Non NYS Price: \$6.00	5.25 NY State	Quality Milk Production Services	M-F	24-48 hrs	2 oz Milk	Clean, sealed container	Refrigerate, Ship on ice, Do NOT freeze
Reproductive Bacteriology Cultures, Panel 4  Includes Aerobic, Mycoplasma and Ureaplasma cultures. *May qualify for New York State contract pricing. Antimicrobial susceptibilities are not included in the testing fee and are not applicable to Mycoplasma spp. and Ureaplasma spp. Tests can be ordered separately. Preliminary aerobic culture results will be provided one day after sample processing begins.	94.00 /sample	Bacteriology	M-F	5-7 days	1) Uterine, cervix or vaginal mucus; 2) Semen, urethra or prepuce	1-2) Swabs in Amies transport media WITHOUT charcoal or fluids/tissues in sealed sterile container	1-2) Refrigerate. Ship in insulated container with ice pack.

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Respiratory Bacteriology Cultures, Panel 6  Includes Aerobic, Mycoplasma and Ureaplasma cultures. *May qualify for New York State contract pricing. Antimicrobial susceptibilities are not included in the testing fee and are not applicable to Mycoplasma spp. and Ureaplasma spp. Tests can be ordered separately. Preliminary aerobic culture results will be provided one day after sample processing begins.	94.00 /sample	Bacteriology	M-F	5 days	1) Tracheal wash; 2) Lung 3) Aseptically collected swab of tracheal wash or lung	1-2) Swab in Amies transport media (swab) WITHOUT charcoal or fluids/tissues in sealed sterile container	1-2) Refrigerate. Ship in insulated container with ice pack.
Reticulocyte Count  Do not allow coolant to come in contact with specimen; ship Overnight	10.50	Clinical Pathology	M-Sa	1-2 days	EDTA blood (> 1/2 full)	lavender top tube	Refrigerate
Rotavirus Antigen Detection, Group A Latex agglutination to detect Group A Rotavirus antigen	25.00 /animal	Virology	Varies	3 days	5cc feces	Leakproof container	Freezer Packs
Rotavirus FA-Any Species  Fluorescent antibody	25.00	Virology	M - F	2 - 4 days		Sealable plastic bag or container	Ship in insulated container with ice packs.
Ruminant CNS Panel, Bacteriology  Includes Aerobic and Listeria cultures. *May qualify for New York State contract pricing. Rabies testing must be done prior to submission. Antimicrobial susceptibilities are not included in the testing fee. Culture preliminary results will be provided one day after sample processing begins.	62.00 /sample	Bacteriology	M-F	5-7 days	1) Brain or cerebellum; 2) Cerebrospinal fluid 3) Aseptically collected Swab of meninges, brain or CSF	1-2) Sealed sterile container 3) Swab in Amies transport medium with or without charcoal or in Anaerobic transport medium	1-2) Refrigerate. Ship in insulated container with ice pack.
Ruminant Liver Panel  AST, SDH, GGT, GLDH, NEFA, BHB, Total protein with albumin and globulins, A/G ratio, CK	32.00	Clinical Pathology	M - F		1 mL separated serum	plain glass or plastic tube	Refrigerate
Salm Dublin ELISA-Bulk Tank, NYSCHAP  Detection of Salmonella Dublin antibodies in bovine herds For NYSCHAP bovine herd testing only. NYSCHAP form must accompany samples. For more information about Salmonella Dublin in cattle, see Multi-drug Resistant Salmonella Dublin in Cattle.	11.00	Serology	2-4 days/week	3 days	2 mL bulk tank milk; preservative okay	Vial	Refrigerate
Salmonella Culture  For the isolation of Salmonella species. *May qualify for New York State contract pricing. Test is also part of the Enteric Panel 1, Enteric Panel 2, and Enteric Panel 3. Antimicrobial susceptibilities are not included in the testing fee. See the Adult Equine Diarrhea Kit for equine submissions.	22.00 /sample	Bacteriology	M-Sa	3-5 days	1) Fresh feces or intestinal contents; 2) Ligated ileum or jejunum; 3) Mesenteric lymph node; 4) other tissues; 5) Water; 6) Swab of 1-4	1) Feces in sealed sterile container or ParaPak; 2-5) Tissues or fluids in separate, sealed, sterile containers 6) Swab in Amies transport media or other suitable bacterial transport medium	1-6) Refrigerate EXCEPT ParaPak (Parapak at room temperature)
Salmonella Dublin ELISA  Detection of Salmonella antibodies For more information about Salmonella Dublin in cattle, see Multi-drug Resistant Salmonella Dublin in Cattle. For bovine NYSCHAP herd bulk milk tank testing, please see Salm. Dublin ELISA-Bulk Tank, NYSCHAP	11.00 /sample	Serology	2-4 days/week	3-5 days	2 mL Serum, individual milk, bulk milk	red top tube (serum), vial (milk)	Refrigerate
Selenium, tissue/feed (Selenium Hydride Atomic Absorption)	55.00	Toxicology	M-F	6 days	1) 2g tissue; 2) 100g feed	1) sterile container; 2) any container	1) Refrigerate; 2) none
Selenium, whole blood  Atomic Absorption analysis of whole blood Cannot analyze in plasma or serum - Need whole blood. Contact Lab for specifics for avian and very small animals. May also want to consider "Vitamin E Alcohol in Serum" test as well.	28.00 /sample	Toxicology	M-F	3 days	1) 5 mL heparin whole blood; 2) 5 mL EDTA whole blood	1) green top blood collection tube; 2) purple top blood collection tube	1-2) Refrigerate w/ cool pack
Semen Colony Forming Units (CFU) Aerobic culture. Includes quantification of colony-forming units/ml of semen. Please contact Laboratory for submission requirements. Antimicrobial susceptibilities are not included in the testing fee.	33.00 /sample	Bacteriology	M-Th	2-7 days	Semen	1) Semen straws	1) Liquid nitrogen

# Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Skin Scraping For ectoparasites Visual examination, KOH digest and Sugar Centrifugation Flotation; send an adequate sample size in an escape-proof container; remember to scrape until skin begins to bleed	28.00	Parasitology	M-F	1-3 days	hair/fur and epidermal tissue	escape-proof, sealed container	Not needed
Sodium	9.00 /sample (blood, fluid)	Clinical Pathology	M-Sa	1-2 days	1) 1 mL separated serum or heparinized plasma; 2) fluid	plain glass or plastic tube	Refrigerate
Sodium, urine	17.00	Clinical Pathology	M-Sa	1-2 days	1 mL urine	plain glass or plastic tube	Refrigerate
Somatic Cell Count (SCC)	3.00 NY; \$4.00 out of state	Quality Milk Production Services	M-F	24 hrs	1-15 ml Milk	Clean, Sealed Container	Refrigerate, Ship on ice, Do NOT freeze
Sorbitol Dehydrogenase (SDH), blood	11.00	Clinical Pathology	M-Sa	1-2 days	1 mL separated serum or heparinized plasma	plain glass or plastic tube	Refrigerate
Special Stain #1  THIS TEST CODE FOR INTERNAL USE ONLY.	50.00	Clinical Pathology	M - F	5 days	Slides		
Special Stain #2	80.00	Clinical Pathology	M-F	5 days	Slides		
Special Stain #3	110.00	Clinical Pathology	M - F	5 days	SLIDES		
Special Stain #4	140.00	Clinical Pathology	M - F	5 days	Slides		
Stained Histology Slides  Slides prepared from (FFPE) blocks H&E or Special Stained slides prepared from Anatomic Pathology cases in addition to the Histopathology. Stained slides are requested to either have Anatomic Pathology review or to have them sent to another facility for review/referral. Additional charges will be applied for shipping and handling.	10.25	Anatomic Pathology	M-F	5 business days	Paraffin embedded tissue block		Room temperature
Strychnine, liquids/fluids	55.25 /sample	Toxicology	M-F	3 days	1) 10 - 20 mL heparin whole blood; 2) 10 - 20 mL urine	1) Heparinized tube, no gel clot; 2) sterile leak-proof container	1-2) Refrigerate w/ cool pack
Strychnine, solids	90.00 /sample	Toxicology	M-F	3 days	1) 50g liver; 2) 50g stomach contents or vomitus	1-2) sterile container	1-2) Refrigerate w/ cool pack
Sulfur	40.00	Toxicology	M-F	3 days	1) 2g tissue; 2) 100g feed	1) sterile container; 2) any container	1) Refrigerate; 2) none
Synovial Fluid Cytology	55.00	Clinical Pathology	M - F	1 business day	1) Joint fluid in EDTA AND 2) Smears (at least 2-3 unstained smears preferred); 3) Also submit a red-top tube if culture is anticipated.	1) Lavender-top tube; (+/- red-top tube); 2) Frosted-end slides	Refrigerate fluids only; ship in insulated container with freezer pack for next day delivery. Hold smears at room temperature; protect from chilling/coolant by insulating separately during shipment.
T4 (Thyroxine) - Immultite  For more information, see Appendix C	15.00	Endocrinology	M-F	1-3 days	1 mL serum	plastic or glass tube	Refrigerate. Ship in insulated container with ice pack.
Testosterone baseline For more information, see Appendix C	19.00	Endocrinology	Monday	1-8 days	1 mL serum	plastic or glass tube	Refrigerate

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\* Each accession received will be charged a \$5.00 accessioning fee, in addition to the requested testing. Fees are subject to change without notice, please call the lab if you have any questions. Contract pricing available. For information please refer to <https://ahdc.vet.cornell.edu/billing/contract.cfm>  
\*\* "Lag Time" is counted in business days, unless otherwise specified, from the day the specimen arrives until the day the test result is reported, assuming there are no complications with testing.

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Testosterone Post HCG/GnRH	13.00	Endocrinology	Monday	1-7 days	250 uL serum or plasma	plastic or glass	
Testosterone: HCG/GnRH Response	19.00	Endocrinology	Monday	1-7 days	250 uL serum or plasma	plastic or glass	
Thrombin Clotting Time (TCT) Ship Overnight: for additional info on Submission Guidelines, or see Comp Coag web page	14.50	Comparative Coagulation	M-F	same day	1 mL separated citrate plasma	plastic or siliconized glass tube in styrofoam box	Refrigerate/ship on cold pack
Thrombin-antithrombin Complex Research and batch testing only. Testing not done on rabbits. Per test fee requires submission of 15 or more samples for batch analysis. Ship Overnight. For additional info on Submission Guidelines, or see Comp Coag web page:	52.50	Comparative Coagulation	1x/month	up to 1 month	citrate plasma	plastic tube in styrofoam box	dry ice
Total Protein Panel Total Protein (TP), Albumin, Globulin for additional info on Clin Path panels	17.00	Clinical Pathology	M-Sa	1-2 days	1 mL separated serum or heparinized plasma	plain glass or plastic tube	Refrigerate
Total Protein Plasma (by refractometer) Do not allow coolant to come in contact with specimen; ship Overnight	5.00	Clinical Pathology	M-Sa	1-2 days	EDTA blood (>1/2 full)	lavender top tube	Refrigerate
Total Protein, blood Total protein in blood	13.00	Clinical Pathology	M-Sa	1-2 days	1 mL separated serum or heparinized plasma	plain glass or plastic tube	Refrigerate
Total Protein-Creatinine Panel Total Protein, Creatinine, P:C Ratio (Calc) for additional info on Clin Path panels	38.00	Clinical Pathology	M-Sa	1-2 days	2 mL urine	leak-proof container	Refrigerate
Toxic Heavy Metal Screen (Arsenic, Lead, Cadmium, Mercury, Thallium) X-ray Fluorescence Spectrophotometry	77.25 /sample	Toxicology	M-F	7 days	1) liver OR 2) kidney OR 3) powders, solids OR 4) paint chips	1-5) sterile, leak-proof container	1-2) Freeze; 3-5) Refrigerate w/ cool pack
Toxoplasma gondii IgG ELISA Detects anti-Toxoplasma IgG antibody The Toxoplasma gondii IgG ELISA tests serum for the presence of anti-Toxoplasma IgG antibody, indicating a history of exposure to the parasite. This test is valid to test serum from a broad range of animal species, except for birds, marsupials and cold-blooded animals. Results are reported as "positive", "negative" or "equivocal". Testing is repeated 2-3 weeks after the initial sample was tested to establish if an infection is acute or chronic, or to delineate the true status of an animal with a previously "equivocal" result. When a second sample is submitted, please provide the accession number from the first sample submitted, as both samples are needed for accurate paired testing. Fluids other than serum will not be evaluated. *May qualify for New York State contract pricing.	20.00 /sample price.	Parasitology	Wed	1-7 days	100 uL serum	red-top blood collection tube	Refrigerate
Toxoplasmosis FA Fluorescent antibody	25.00 /animal	Virology	M-F	2-4 days	Fetal tissue: placenta and brain preferred; also lung, liver, kidney, skeletal muscle, spleen, lymph node; Non-fetal tissue including suspect affected tissue such as brain, liver, kidney, lung, skeletal muscle.	Leakproof, unbreakable plastic container or bag	Ship for next day delivery in insulated container with freezer pack(s)
Tracheal Wash Cytology Report includes - Specimen type and site (provided by submitter), Smear type, Smear description, Smear Interpretation With fluid samples of tracheal wash, please also submit 2-3 freshly prepared smears of the fluid and specify smear type, i.e. direct or sediment, on the smears and on the cytology submission form. It is important to rapidly air-dry any smears. Do not allow coolant to come in contact with specimen; ship overnight. STAT service available for same day results (extra charges apply). For additional information see Cytology Testing	46.00	Clinical Pathology	M - F	1 business day	1) Tracheal wash fluid in EDTA; 2) Smears (at least 2-3 unstained smears preferred); 3) Also submit a red-top tube if culture is anticipated.	1) Lavender-top tube; (+/- red-top tube); 2) Frosted-end slides	Refrigerate fluids only, DO NOT refrigerate smears
Transition Cow Energy Panel Includes BHB and NEFA	22.00	Clinical Pathology	M-Sa	4 hrs	1 mL separated serum	plain glass or plastic tube	Refrigerate
Trichinella Tissue Examination Acid Pepsin digest	27.50	Parasitology	M-F	7 days	muscle tissue	wide mouth leak-proof	Refrigerate

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Trichomonas Culture InPouch culture of preputial wash from bulls to detect organism Referred to Colorado State University for confirmation of suspects.	13.50	Parasitology	M-F	5-7 days	Inoculated InPouch	InPouch	Room Temperature
Triglycerides	11.00 /sample (blood, fluid)	Clinical Pathology	M-Sa	1-2 days	1) 1 mL separated serum or heparinized plasma; 2) fluid	plain glass or plastic tube	Refrigerate
Unstained Histology Slides Prepared  Slides or PCR tubes prepared from (FFPE) blocks. Unstained slides or PCR tubes containing 2-3 (10uM) unstained tissue sections prepared from anatomic pathology cases that have been or are in the process of being reported on. These unstained slides or PCR tubes are prepared for the purpose of sending to another testing facility for slide review or referral analysis. Additional charges may be applied for shipping and handling. Price is per slide or PCR tube prepared.	5.25	Anatomic Pathology	M-F	5 business days	Paraffin embedded tissue block		Room temperature
Urea Nitrogen  Test for blood urea nitrogen in serum, plasma or other fluid.	11.00	Clinical Pathology	M-Sa	1-2 days	1) 1 mL separated serum or heparinized plasma; 2) fluid	plain glass or plastic tube	Refrigerate. Ship in insulated container with ice pack.
Urea Nitrogen, urine	16.50	Clinical Pathology	M-Sa	1-2 days	1 mL urine	plain glass or plastic tube	Refrigerate. Ship in insulated container with ice pack.
Ureaplasma Culture  For the culture of Ureaplasma species. *May qualify for New York State contract pricing. Antimicrobial susceptibilities are not applicable. Test is also part of the Reproductive Panel 4 and Respiratory Panel 6.	27.00 /sample	Bacteriology	M-F	5-10 days	1) Uterine, cervical or vaginal mucus; 2) Semen; 3) Tracheal washing or lung tissue; 4) Urine; 5) Aseptically collected swab of 1-4	1-4) Fluid or tissue in sealed sterile container; 5) Swab in Amies transport media WITHOUT charcoal	1-4) Refrigerate
Uric Acid, urine	16.50	Clinical Pathology	M-Sa	1-2 days	1 mL urine	plain glass or plastic tube	Refrigerate
Urinalysis, Routine  Color, turbidity, dipstick (pH, TP, glucose, ketones, bilirubin, blood), specific gravity, sediment exam	25.00	Clinical Pathology	M-Sa	1-2 days	10 mL fresh urine	leakproof container	Refrigerate
Urine Culture  For the isolation of aerobic bacteria from the urinary tract. *May qualify for New York State contract pricing. It is recommended to collect and submit urine collected by Cystocentesis. Please indicate method of collection. Antimicrobial susceptibilities are not included in the testing fee. Refer to Urine Antimicrobial susceptibilities. Urine Transport Tubes are available for purchase from our Supply Center. Performing cytology in conjunction with culture is also recommended to aid in interpretation of results.	20.00 /sample	Bacteriology	M-F	2-7 days	1) Urine; 2) Bladder tissue/stones; 3) Aseptically collected Swab of urine or bladder	1) Urine Transport Tube (preferred) or other sterile container; 2) Tissue or stones in separate sterile sealed containers; 3) Swab in Amies transport media or other suitable transport medium for aerobic culture	(1-3) Ship overnight in insulated container with ice packs to arrive no later than 48 hours post collection.
Vesicular Stomatitis Virus (VSV) IND SN  IND strain Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze. Paired serum samples are recommended for optimal diagnostic test interpretation.	10.00	Virology	M, W, F	2-4 days	1 ml serum	red top blood collection tube	It is recommended to ship samples with an ice pack.
Vesicular Stomatitis Virus (VSV) NJ SN  NJ strain Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze. Paired serum samples are recommended for optimal diagnostic test interpretation.	10.00	Virology		2-4 days	1 ml serum	red top blood collection tube	It is recommended to ship samples with an ice pack.
Virus FA  See also specific Viral FA tests Refer to individual FA tests	25.00 /animal	Virology	M-F	2-4 days	Tissues or fluids. Contact lab if there are questions about sample suitability.	Sealable plastic bag or container for tissues; Leakproof container for fluids and swabs in Viral Transport Medium	Ship in insulated container with ice pack

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Virus Isolation  See also specific Virus Isolation tests or clinical presentation Best sample may depend upon suspected viral infection and pathophysiology related to viremia, infected tissue and viral shedding. Recent investigations indicate that urine is a good antemortem sample for detection of some viruses. There is generally a lack of information regarding viral detection in urine samples for many viral diseases. Please include urine if it is available when you are submitting other samples for virus isolation for our investigational use. No extra charges will be incurred. Refer also to individual Virus Isolation tests. Call lab ahead before sending reptile samples. Swabs in bacterial transport medium are not appropriate for virus isolation or PCR testing. If viral transport media is unavailable, put swabs in a red top tube with a few drops of saline.	70.00 /animal	Virology	M-F	21-30 days, s	1) Tissue [target organs and blood-rich organs such as lymph nodes, spleen, lungs, kidney, heart, liver, brain] OR 2) Cerebrospinal fluid Or 3) EDTA whole blood OR 4) antemortem nasal swab AND 5) urine (see comment)	1) Tissue in leakproof unbreakable containers 2) sterile, leakproof container; 3) EDTA blood tube; 4) in sterile leakproof container with 2-3 drops sterile saline or in Virus isolation media (not bacterial transport media)	Ship in insulated container with freezer packs for next day delivery pack
Virus Isolation, BVD Semen Virus Isolation Swabs in bacterial transport medium are not appropriate for virus isolation or PCR testing.	60.00 /animal	Virology	Wednesday	21-30 days, s	Frozen semen		Dry ice or liquid Nitrogen
Virus Isolation, IBR Semen Virus isolation Swabs in bacterial transport medium are not appropriate for virus isolation or PCR testing.	33.00 /animal	Virology	Wednesday	21-30 days, s			Dry ice or liquid Nitrogen
Virus Isolation, IBR/BVD Semen Panel Virus Isolation Swabs in bacterial transport medium are not appropriate for virus isolation or PCR testing.	93.00 /animal	Virology	Wednesday	21-30 days, s			Dry ice or liquid Nitrogen
Vitamin A in serum  (High Performance Liquid Chromatography) Analysis for retinol (vitamin A) using HPLC. Separate serum and remove from clot immediately. Protect from light and keep cool.	30.00 each	Toxicology	Tu, Th	5 days	Serum, separated from clot.	Avoid preservatives such as Citrate or EDTA. No Gel Clot Vacutainer Tubes.	Refrigerate
Vitamin E in serum  (High Performance Liquid Chromatography) "Selenium" test recommended also Analysis for alpha-tocopherol (vitamin E) using HPLC. Separate serum and remove from clot immediately. Failure to remove serum from clot may lead to inaccurately low vitamin E levels. Protect from light and keep cool. We strongly recommend that Vit E (serum) and Selenium (Heparin or EDTA whole blood) be tested together.	30.00 each	Toxicology	Tu, Th	5 days	Serum, separated from clot	Avoid preservatives such as Citrate or EDTA. No Gel Clot Vacutainer Tubes (SST tubes).	Refrigerate
von Willebrand factor - large animal/exotic  von Willebrand factor concentration, ELISA method Test offered for species other than dog and cat. For additional info go to Submission Guidelines, or see Comp Coag web page	48.50	Comparative Coagulation	1x/wk	14 days	1 mL citrate plasma (separated) EDTA plasma is acceptable	plastic or siliconized glass tube in styrofoam box	Cold pack or dry ice
von Willebrand factor Collagen Binding Assay  Functional ELISA Ship Overnight; requires vWF:Ag on same sample; for additional info on Submission Guidelines, or see Comp Coag web page	43.00	Comparative Coagulation	bi-weekly	1-2 wks	citrate plasma	plastic or siliconized glass tube in styrofoam box	Refrigerate/ship on cold pack
West Nile Virus (WNV) PCR  PCR Swabs in bacterial transport medium are not appropriate for virus isolation or PCR testing. Whole blood is an acceptable sample only for Avian testing, not for Mammals This service is performed pursuant to an agreement with Roche Molecular Systems.	36.75	Virology	M-F	3-5 days	AVIAN: 1) Brain, heart, kidney, bone marrow; 2) EDTA Whole Blood; 3) Oropharyngeal or Cloacal swab; MAMMAL: 4) CSF; 5) Brain or spinal cord. WHOLE BLOOD IS NOT AN ACCEPTABLE SPECIMEN FOR MAMMALS	1,5) Sealable plastic bags or containers; 3) Swabs in Virus transport medium; 2,4) Leakproof container	Freezer Packs
West Nile Virus (WNV) SN  serum neutralization Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze. Acute and convalescent serum samples are recommended for optimal diagnostic test interpretation. Currently at the AHDC, this test is used primarily for mammalian species.	14.50	Virology	Thursday	7-14 days	1 ml of serum (preferred) or plasma	red top blood collection tube	It is recommended to ship samples with an ice pack.



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White Blood Cell (WBC) Count, Total  Do not allow coolant to come in contact with specimen; ship Overnight	7.00	Clinical Pathology	M-Sa	1-2 days	EDTA blood (> 1/2 full)	lavender top tube	Refrigerate
White Blood Cell (WBC) Panel  WBC, Manual Differential Cell Count, Platelet Smear estimate, RBC, WBC Do not allow coolant to come in contact with specimen or slides; ship overnight. For additional info on Clin Path panels	16.50	Clinical Pathology	M-Sa	1-2 days	1) EDTA blood > 1/2 full; 2) 2 dry (unfixed, unstained) blood smears	1) lavender top tube; 2) frosted-end slides	Refrigerate. Ship in insulated container with ice packs.
Yersinia Culture  For the isolation of Yersinia enterocolitica. Antimicrobial susceptibilities are not included in the testing fee.	16.00 /sample	Bacteriology	M-Sa	2-7 days	1) Fresh feces or intestinal contents; 2) Ligated ileum or jejunum; 3) Mesenteric lymph node; 4) swab of 1-3	1)Feces in sealed sterile container or ParaPak; 2-3) Tissue in Separate sealed sterile containers; 4)Swab in Amies transport media or other suitable aerobic transport medium	1-3) Refrigerate EXCEPT ParaPak (keep at room temperature)
Zinc, serum/plasma  For avian and exotics, contact Lab	30.00 /sample	Toxicology	M-F	2 days	1) 2 mL serum; or 2) 2 mL heparinized plasma in a green top tube	1) 2 mL serum; or 2) 2 mL heparinized plasma; Royal blue-topped tube (trace mineral tube) preferred. No gel clot.	1-2) Refrigerate. Ship in insulated container with ice pack.