

## 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.

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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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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.
Antiplasmin  Measurement of antiplasmin levels in plasma Ship Overnight. For additional info see Submission Guidelines, or see Comp Coag web page	38.50	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.
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.

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Arsenic, blood/water/urine	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.
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							
Arsenic, tissue/feed	35.00 /sample	Toxicology	M-F	5 business days	1) tissue; 2) feed	1) sterile container; 2) any container	1) Refrigerate; 2) none
Quantitative arsenic concentration in tissue or feed.							
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 ID	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.
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.							
Baermann Fecal Technique	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.
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>Eucoleus</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.							
Basic-Extracted Drugs	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)
(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, Phenothiazine, 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.							
Beta-Hydroxybutyrate (BHBA)	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.
See Eclinpath for more information							
Bethesda Unit Assay	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.
Bethesda units/mL; measure of factor inhibitory activity Ship Overnight. For additional info see Submission Guidelines or Comp Coag web page							
Bicarbonate	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 Eclinpath for more information							

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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.
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.

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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.
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 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 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 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 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 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

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
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.
<p>Antigen Capture ELISA</p> <p>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.</p> <p>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.</p> <p>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 &gt; 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.</p>							
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, esophagus, mesenteric 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.							
Bovine Virus Diarrhea Virus (BVDV) SN, Type 2	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 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.							
Bovine Virus Diarrhea Virus (BVDV) Whole Blood Isolation	27.50	Virology	M-F	14 days	5 ml EDTA whole blood	lavender top tube	Refrigerate, ship in insulated container with ice pack
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							

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Bronchoalveolar Lavage Count Cytology (smear exam and count: 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.
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							
Bronchoalveolar Lavage Cytology (smear exam only)	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
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							
Bronchodilators	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.
(Clenbuterol, Albuterol, Turbutaline)							
Samples arriving at AHDC between October 27 and December 15 will be forwarded to a referral lab for analysis.							
Brucella Culture, non-canine	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.
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.							
Brucella Plate Agglutination	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.
Non-canine							
When required for export or emergencies ONLY							
Brucella Tube Agglutination	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.
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							
Bulk Milk Aerobic Culture	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.
no preservative							
Cache Valley Fever Virus SN	14.50 sample	Virology	As needed	7 days	1 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. Paired serum samples are recommended for optimal diagnostic test interpretation.							
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

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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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## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
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. <b>Submissions not fulfilling these requirements will not be tested.</b> 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
Caprine Arthritis Encephalitis Virus (CAEV) c-ELISA  This Small Ruminant Lentivirus (SRLV) Antibody Test Kit is a competitive, enzyme-linked, immunosorbent assay (cELISA). Sample serum CAEV or OPPV antibody inhibits binding of horseradish peroxidase (HRP)-labeled SRLV-specific monoclonal antibody to CAEV antigen coated on the plastic wells. Binding of the HRP-labeled monoclonal antibody conjugate is detected by the addition of enzyme substrate and quantified by subsequent color product development. Strong color development indicates little or no blockage of HRP-labeled monoclonal antibody binding and therefore the absence of CAEV or OPPV antibody in sample sera. Weak color development due to inhibition of the monoclonal antibody binding to the antigen on the solid phase indicates the presence of CAEV or OPPV antibodies in sample sera. * Contact lab for add'l possible test days. Young kids from dams with unknown status, test at a minimum of 3-4 months of age; re-test Negative herd additions or animals with recent suspect exposure in 90 days.Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze.	9.50 /sample	Virology	W*	1 wk	1 ml serum, plasma is not an acceptable sample for this test. Acceptable species: Caprine or Ovine.	red top blood collection tube	It is recommended to ship samples with an ice pack.
Cerebrospinal Fluid Cytology  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	58.00	Clinical Pathology	M - F	1 business da	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.

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Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Chlamydia (Chlamydia) FA  Fluorescent antibody	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
Chlamydia CF  Complement Fixation Species tested: bovine, ovine, caprine and felineNote: 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.	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.
Chlamydia psittaci PCR  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	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
Chloride  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.
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  Dogs and cats should be fasted for around 12 hours to avoid cholesterol interference from post-prandial hyperlipidemia. See Eclinpath for more information	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.
Cholinesterase  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.	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
Chromatography Quantitation  Special request only, contact Lab at 607-253-3975 or -3974	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
Clostridium chauvoei FA  For the detection of Clostridium chauvoei by fluorescent antibody stain. Ship overnight. *May qualify for New York State contract pricing .	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
Clostridium difficile Toxins (A/B)  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.	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.

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Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Clostridium novyii FA  For the detection of Clostridium novyii by fluorescent antibody stain. Ship overnight. *May qualify for New York State contract pricing .	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
Clostridium perfringens Enterotoxin  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.	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.
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  For the detection of Clostridium septicum by fluorescent antibody stain. Ship overnight. *May qualify for New York State contract pricing .	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
Clostridium sordellii FA  For the detection of Clostridium sordelli by fluorescent antibody stain. Ship overnight. *May qualify for New York State contract pricing .	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
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 Factor IX coagulant activity	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 (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	Refrigerate
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

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Contagious Ecthyma Virus (ORF) IFA Indirect fluorescent antibody 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 /sample	Virology	M-F	5 days	1 ml serum	red top blood collection tube	It is recommended to ship samples with an ice pack.
Contagious ecthyma virus (ORF) 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. 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
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.
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
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.

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Cyanide	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	Heparinized or EDTA tube; air-tight container	1-2) Refrigerate; 3-4) freeze
1-2) Refrigerate promptly; Cannot analyze in plasma or serum - Need whole blood. Do not use heparin separator tubes (gel tubes)					3-4) freeze samples promptly, keep samples cold in transit; special request only, contact Lab to make arrangements		
Cytology Smear Exam	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
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							
Dermatology Biopsy Surcharge	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
For Dermatology biopsies (up to 5 sites)							
DIC Panel, Large Animal and Exotics	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
Includes aPTT, PT, Fibrinogen, Antithrombin, D-dimer Ship Overnight: for additional info on Submission Guidelines, or see Comp Coag web page							
Dilute Russell's Viper Venom Time	15.50	Comparative Coagulation	M-F	same day	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							
Drug Quantitation	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
Special request only, contact Lab							
Electrolytes Panel	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
Na, K, Cl For more information, see Chemistry Panel Information							
Electrolytes Panel, urine	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
Na, K, Cl, Creat For more information, see Chemistry Panel Information.							
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	60.00	Clinical Pathology	1x/wk	7-10 days	Body fluids. Please specify site.	plain glass or plastic tube	Refrigerate
All species; please specify site of fluid collection							
Electrophoresis, urine	60.00	Clinical Pathology	1x/wk	7-10 days	) 5-7 mL urine	plain glass or plastic tube	Refrigerate

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Enteric Bacteriology Cultures, Panel 1	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.
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.							
Enteric Bacteriology Cultures, Panel 2	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.
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.							
Enteric Bacteriology Cultures, Panel 3	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.
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.							
Environmental Count	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.
Non NYS Price: \$40.00							
Environmental Samples (for parasites)	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.		
Please contact Lab: fee depends on parasite of interest, type of sample submitted, and processing required							
Epizootic Disease virus PCR	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
This assay detects virus nucleic acid in tissues and fluids of affected animals.							
Ethylene Glycol	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 clot 3-5) sterile, leak-proof container	1-5) Refrigerate w/ cool pack
Special request only, contact Lab							

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Fecal Qualitative	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
<p>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.</p>							
Fecal Quantitative	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
<p>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.</p>							
Fecal Wet Mount	5.50	Parasitology	M-F	1 day	10g fresh fecal sample	wide mouth leak-proof container	Do NOT Refrigerate
<p>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</p>							
Fibrinogen	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
<p>Quantitative measure of clottable fibrinogen (Clauss method) Ship Overnight; for additional info on Submission Guidelines, or see Comp Coag web page</p>							
Fibrinogen (antigen)	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
<p>Fibrinogen concentration; ELISA method Ship Overnight; for additional info on Submission Guidelines, or see Comp Coag web page</p>							
Fibrinogen (heat-precipitation)	16.00	Clinical Pathology	M-Sa	1-2 days	EDTA blood (> 1/2 full)	lavender top tube	Refrigerate
<p>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 (citrate plasma) offered in the Comparative Coagulation lab.</p>							
Field Necropsy Surcharge	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
<p>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.</p>							
Fluphenazine (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
<p>(Liquid Chromatography/Mass Spectrometry) Liquid Chromatography/Mass Spectrometry (LC/MS)</p>							
Formalin-fixed tissue extraction surcharge (Molecular Diagnostics)	20.00	Molecular Diagnostics	M-F		Formalin-fixed tissues		Room temp
<p>Surcharge added to fixed tissues due to the extra labor and materials needed for the nucleic acid extraction procedure.</p>							
Fructosamine	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
<p>See Eclinpath for more information</p>							
Fungal Culture	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
<p>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.</p>							

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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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## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
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.
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

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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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## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
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
Hemogram (CBC), Automated (Mammalian)  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 panelsFor 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>	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.
Hemogram (CBC), Partial  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.	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
Hemogram, Large Animal  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>	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
Heparin (Low Molecular Weight)  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.	39.25	Comparative Coagulation	M-F	same day	citrate plasma	plastic or siliconized glass tube in styrofoam box	Refrigerate/ship on cold pack
Heparin (Unfractionated)  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.	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

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Histopathology	66.50 for 1-2 sites; Field necropsy/veterinari an-performed necropsy (necropsy in a bottle) \$122.50; Dermatology biopsies \$81.50; companion animal liver biopsies \$111.50. Special/ augmented histo requests \$20.50 for each additional site beyond 1-2 tissues. If STAT, call the lab in advance. See notes below regarding what is included in each of these categories of histology requests."	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
<p>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.</p> <p>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&amp;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. This includes research/insurance/legal cases for which every single tissue submitted must be described histologically and the selection of the tissues is not at the discretion of the pathologist. It may also include complicated submissions of entire organs or tumor beds or lymphatic samples that need exact tracking of site of collection for multiple samples of the same tissue type. Please call 607-253-3319 in advance to discuss research histology needs or for price quotes related to these types of submissions. 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</p>							
Histopathology (Each additional site)	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	
<p>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.</p>							
Histopathology, Slide Review (1-2 slides)	55.00 .	Anatomic Pathology	M-F	3 days	1 to 2 Slides	Slide mailer	
<p>1-2 slides Contact Path Dept (607-253-3312)</p>							
Histopathology, Slide Review (3+ slides)		Anatomic Pathology	M-F	3 days	3 or more slides	Slide mailer	
<p>3 or more slides Contact Path Dept (607-253-3312)</p>							
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

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
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) tracheal, choanal, oropharyngeal, cloacal (duck) 2) tissue (min. 5 g); 3) allantoic fluid (min. 2 mL)	unbreakable, leak-proof container	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 (MAP) Commercial ELISA The Johnes Commercial ELISA detects antibodies to Mycobacterium avium subsp.paratuberculosis (MAP). This test is for use on Bovine serum or plasma. Caprine and Ovine samples can be tested, but the assay has not been formally validated for use with samples from these species.	5.00	Serology	M-F	3-4 Days	2mL Serum	red top blood collection tube	Refrigerate
Johne's Culture, Non-Bovine  For the culture of Mycobacterium avium subsp. paratuberculosis from individual clinical suspects. For more information, please see Johne's Sampling and Testing Options. Lag time for positive samples will be shorter. A \$50/hour fee to cover additional laboratory handling of improperly collected, labelled, or shipped samples may be assessed.	40.25 /sample	Bacteriology	M-W	12-16 wks	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 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.
Johne's Culture, Pooled  Bovine only. For the culture of Mycobacterium avium subsp. 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. A \$50/hour fee to cover additional laboratory handling of improperly collected, labelled, or shipped samples may be assessed.	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.

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
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 <i>Mycobacterium avium</i> sbsp. <i>paratuberculosis</i> 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. A \$50/hour fee to cover additional laboratory handling of improperly collected, labelled, or shipped samples may be assessed.</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 <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. A \$50/hour fee to cover additional laboratory handling of improperly collected, labelled, or shipped samples may be assessed.</p>							
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.
<p>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.</p>							
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.
<p>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.</p>							
Knott's Heartworm	16.50	Parasitology	M-F	1-3 days	1 mL EDTA or heparin whole blood	sterile blood tube	Refrigerate
<p>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.</p>							
Large Animal Chemistry Panel	48.00	Clinical Pathology	M-Sa	1-2 days	2 mL separated serum or heparinized plasma	plain glass or plastic tube	Refrigerate
<p>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.</p>							
Large Animal Renal Panel	28.00	Clinical Pathology	M-Sa	4 hours	1 mL separated serum	plain glass or plastic tube	Refrigerate
<p>Equ and ruminant: Na, K, Cl, Bicarb, Anion gap, Urea, Creat, Alb, Ca, P</p>							
Lead, blood	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.
<p>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</p>							

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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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## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
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	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
<p>For the detection of antibodies to Leptospira interrogans serovars Pomona, Hardjo, Icterohemorrhagiae/copenhageni, Grippotyphosa, 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.</p>							
Leptospira MAT, 7 serovars	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
<p>For the detection of antibodies to Leptospira interrogans serovars Pomona, Hardjo, Icterohemorrhagiae/copenhageni, Grippotyphosa, 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</p>							
Leptospira real-time PCR	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
<p>This assay targets the lipL32 gene encoding the major surface antigen of pathogenic Leptospira species.</p>							
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	22.00 /sample	Bacteriology	M-F	5-7 days	1) Encephalitic: 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
<p>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.</p>							
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
<p>Freezer pack whole blood; SPECIAL REQUEST - PLEASE CONTACT LAB.</p>							

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Mass Spectroscopy 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	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
Mercury (Flameless Atomic Absorption) Cannot analyze in plasma or serum - Need whole blood. Do not use heparin separator tubes (gel tubes).	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
Microscopic Feed Analysis	40.00 /hr	Toxicology	M-F	3 weeks	100g feed	any container	None
Mineral Panel (Tissue, Feed) (Inductively Coupled Plasma Atomic Emissions Spectroscopy) Includes Ca, P, Mg, Na, K, Cu, Fe, Mn, Zn, Mo	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
Mineral Panel, urine Urine mineral panel includes Magnesium, Phosphorous, Creatinine and Calcium For additional info on Clin Path panels	33.00	Clinical Pathology	M-Sa	1-2 days	2 mL urine	plain glass or plastic tube	Refrigerate
Mineral/Electrolytes Panel Na, K, Cl, Bicarb, Anion Gap, Ca, P, Mg For additional info on Clin Path panels	21.00	Clinical Pathology	M-Sa	1-2 days	1 mL separated serum or heparinized plasma	plain glass or plastic tube	Refrigerate
Mineral/Electrolytes Panel, urine Na, K, Cl, Ca, P, Mg For additional info on Clin Path panels	39.00	Clinical Pathology	M-Sa	1-2 days	1 mL urine	plain glass or plastic tube	Refrigerate
Mycobacterium bovis or tuberculosis PCR Must obtain prior instructions to submit. Cultures MUST be shipped as Infectious Substance Category A, UN2814	36.75	Molecular Diagnostics	prior arrangement		Prior arrangement	follow lab instructions	Refrigerate
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					

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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.

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## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
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		
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
Neospora IFA  Indirect Fluorescent antibody test Acceptable species: Canine and Bovine. This test is also done on a variety of other species, however it is not validated and a comment indicating such will be added to the report. Other species tested: Camelid, Ovine, Moose, Deer, Caprine, Equine, Grizzly bears, Giant Panda, and most other exotic serum. Unacceptable species: Feline and Red Panda Please contact lab with any questions regarding appropriate species.	16.50	Virology	1x/wk	2-5 days	1) 2 ml serum 2) CSF (canine only) 3) fetal heart blood (bovine, ovine)	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
OPP cELISA  Enzyme linked immuno-assay Testing of lambs less than 6 months of age not recommended unless from negative ewe. Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze.	9.50	Virology	Wednesday	7 days	1 ml serum, plasma is not an acceptable sample for this test. Acceptable species: Caprine or Ovine.	red top blood collection tube	It is recommended to ship samples with an ice 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
Ovine Pinkeye Diagnostic Plan  Tests included in this plan are: Aerobic bacterial culture, Chlamydomphila PCR, Mycoplasma culture 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. *May qualify for New York State contract pricing. For more information about this plan, please see Ovine Diagnostic Plans/Panels.	103.75	Multiple Sections	M-F as needed		Conjunctival swab in aerobic transport media (Amies w/out charcoal) AND conjunctival swab in sterile tube with 0.5 ml saline to keep moist (not wet).	1) Aerobic transport media (Amies w/out charcoal; 2) sterile tube with 0.5 ml saline to keep moist (not wet)	Ship chilled
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
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.	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.

## 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>							
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>							
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.
<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 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</p>							

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VSS-WEB-083-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.

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Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
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 for additional info on Chemistry Panel Information	30.00 /sample	Clinical Pathology	M-Sa	1-2 days	2 mL separated serum or heparinized plasma	plain glass or plastic tube	Refrigerate
Progesterone Immulite - Ovine, Caprine Progesterone Immulite - Ovine, Caprine	14.50	Endocrinology	M-F	1 day	200 uL serum	red top tube	Refrigerate
Prothrombin Consumption Index Ship Overnight; tested by special arrangement: contact laboratory for instructions	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
Prothrombin Time (PT) 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
Rabies Brain Extraction 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.	51.00	Anatomic Pathology	M-Sa	24 hrs, follow head or whole body		leak-proof container	Refrigerate, do not freeze
Red Blood Cell (RBC) 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
Red Blood Cell (RBC), Parasites This test is performed using Wright's (Giemsa) Stain. Do not allow coolant to come in contact with specimen; ship Overnight	12.00	Clinical Pathology	M-Sa	1-2 days	EDTA blood (> 1/2 full)	lavender top tube	Refrigerate
Ref: Aldosterone 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.	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)
Ref: Aspergillus Panel 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	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.
Ref: Babesia Gibsoni Giemsa Smr slides, Exp 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>	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.

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Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
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.							
Ref: Bluetongue PCR	62.40 (+ referral fee; see comment)	Referral	varies	3-5 days	4 mL EDTA or heparinized whole blood		Refrigerate
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							
Ref: Botulism	0.00 Cost cannot be estimated prior to consultation with laboratory (+ referral fee; see comment)	Referral			Stomach/rumen contents, GI contents, feces, spoiled forages, parts of dead animals found in suspect feed, and soil from underneath affected areas.	Samples should be sent in whirlpack bags or other suitable small leak proof container. Put each intestinal sample (contents only, please do not send whole intestines or ligated intestines) in a separate Whirlpak bag and clearly label with ID with a waterproof marker such as a Sharpie.	Refrigerate for immediate shipment or store frozen; Ship for next day delivery in insulated container with freezer pack(s)
Real-time PCR assay for the detection of Clostridium botulinum types A, B and C toxin genes in vegetative cells after a culture enrichment step ?Finding C. botulinum organisms or spores in a fecal or GI sample of a horse or cow, or in a feed sample, is strongly supportive of a diagnosis of botulism in animals exhibiting compatible clinical signs. Please see <a href="http://www.vet.upenn.edu/docs/default-source/new-bolton-center-hospital/NBC-Diagnostic-Labs/instructions-for-submitting-samples-9-1-16.pdf?sfvrsn=6">http://www.vet.upenn.edu/docs/default-source/new-bolton-center-hospital/NBC-Diagnostic-Labs/instructions-for-submitting-samples-9-1-16.pdf?sfvrsn=6</a> for more information.							
Ref: Brucella abortus/suis Fluorescent Polarization Assay	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.
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.							
Ref: Brucella ovis ELISA	12.00 (+ referral fee; see comment)	Referral	Wednesday,	2-7 Business	0.5 ml serum; remove serum from clot	Red Top Collection Tube, remove serum from clot	Refrigerate. Ship for next day delivery in insulated container with freezer pack(s)
This test detects the presence of antibodies to Brucella ovis in ovine serum. This test can be performed on Ovine 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: Caseous lymphadenitis	17.50 (+ referral fee; see comment)	Referral	M-Th	5-6 days	1 mL serum	Red top blood collection tube	Refrigerate. Ship in insulated container with ice pack.
Serum hemagglutination inhibition assay to detect antibodies to Corynebacterium pseudotuberculosis in horses, camelids, sheep and goats. 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. C. pseudotuberculosis SHI titers less than 1:8 are not considered significant, and probably represent cross reactions with common environmental organisms. Titters > 1:256 have a high association with internal abscess formation.							

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Ref: Cholinesterase(brain)	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.
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.							
Ref: Cyclosporine	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)
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.							
Ref: Digoxin	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.
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.							
Ref: FISH Fluorescent In-Situ Hybridization	115.00 + in-house referral fee. See comment	Referral	Tues or Wed	5-10 Business	5 unstained fixed tissue slides.	Slide Mailer;	Room Temperature
Flourescent probe binds to bacterial ribosomes in tissue. Detected with flourescent microscope. This test can be performed on all species. 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).							
Ref: Insulin Growth Factor-1	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
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.							
Ref: Kepra/Levetiracetam	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
Checking Kepra 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.							
Ref: Leishmania PCR	60.00 (+ referral fee; see comment)	Referral	M-F	5-7 days	2 mL EDTA whole blood	Insulated	Refrigerate or ship on cold pack
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.							
Ref: MCF PCR	67.20 (+ referral fee; see comment)	Referral	M-F	7-14 days	EDTA Whole Blood or Tissue	Insulated	Refrigerate (not frozen)
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.							
Ref: Mycobacterial Culture (Acid Fast TB)	58.00 (+ referral fee; see comment)	Referral	M-F	30-120 days	Tissue	Mycobacterium box	Ambient
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.							

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
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: 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; see comment)	Referral					
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. Cannot use plasma. Sample needs at least 500ul for one run. 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; see comment)	Referral	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: Troponin A complex of muscle proteins which, when combined with Ca <sup>2+</sup> , influence tropomyosin to initiate contraction. Send pre and post exercise samples on dry ice by overnight courier. Remove serum or plasma from cells within 2 hours! 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	84.00 (+ referral fee; see comment)	Referral	M, F	1-3	days 1 mL serum or hep plasma	Insulated	Dry ice

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Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
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
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: 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: 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
Reserpine (LC/MS)  Liquid Chromatography/Mass Spectrometry (LC/MS) (increased sensitivity)	165.50 /sample	Toxicology	M-F	1-3 days	1) 10 mL heparin whole blood; or 2) transfer 5 mL heparin plasma to a red top tube	1) Heparinized tube, no gel clot; 2) red top blood collection tube	1-2) Refrigerate w/ cool 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
Rivaroxaban  Anti-Xa activity measured in a chromogenic assay configured with a rivaroxaban calibration standard. Samples for determination of peak rivaroxaban anti-Xa activity should be collected 3 hours after oral drug administration. For more information, see Rivaroxaban assay FAQs	45.00	Comparative Coagulation	As required	Same day	0.5 mL Citrated plasma	plastic or siliconized glass tube in styrofoam box	Refrigerate sample. Ship overnight with ice packs in insulated container.
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.

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Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Ruminant CNS Panel, Bacteriology	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.
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.							
Salmonella Culture	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)
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.							
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	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
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.							
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
Small Ruminant Lentivirus cELISA	9.50	Virology	Wednesday	1 week	1 ml serum, plasma is not an acceptable sample for this test. Acceptable species: Caprine or Ovine.	red top collection tube	It is recommended to ship samples with an ice pack.
This Small Ruminant Lentivirus (SRLV) Antibody Test Kit is a competitive, enzyme-linked, immunosorbent assay (cELISA). Sample serum CAEV or OPPV antibody inhibits binding of horseradish peroxidase (HRP)-labeled SRLV-specific monoclonal antibody to CAEV antigen coated on the plastic wells. Binding of the HRP-labeled monoclonal antibody conjugate is detected by the addition of enzyme substrate and quantified by subsequent color product development. Strong color development indicates little or no blockage of HRP-labeled monoclonal antibody binding and therefore the absence of CAEV or OPPV antibody in sample sera. Weak color development due to inhibition of the monoclonal antibody binding to the antigen on the solid phase indicates the presence of CAEV or OPPV antibodies in sample sera. Contact lab for add'l possible test days. Testing of lambs less than 6 months of age not recommended unless from negative ewe. Young kids from dams with unknown status, test at a minimum of 3-4 months of age; re-test Negative herd additions or animals with recent suspect exposure in 90 days. Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze.							
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	50.00	Clinical Pathology	M - F	5 days	Slides		
THIS TEST CODE FOR INTERNAL USE ONLY.							
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		

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Special/Augmented Biopsy Surcharge Intended for complex submissions of entire organs, lobes, systems, tumor beds, limbs, jaws, etc. This includes research/insurance/legal cases for which every single tissue submitted must be described histologically and the selection of the tissues is not at the discretion of the pathologist. It may also include complicated submissions of entire organs or tumor beds or lymphatic samples that need exact tracking of site of collection for multiple samples of the same tissue type. Please call 607-253-3319 in advance to discuss research histology needs or for price quotes related to these types of submissions.	56.00	Anatomic Pathology	Mon - Fri	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	Store at room temperature. Do not freeze
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 Report includes - Specimen type and site (provided by submitter), Volume, Color, Turbidity, Total Protein, Nucleated cell count, RBC count, Viscosity, Smear type, Smear description, Smear Interpretation If only slides (and no fluid) are submitted, request a cytology smear exam on the cytology submission form and specify the joint sampled as the source. For joint fluid in EDTA, please also submit 2-3 freshly prepared smears from the fluid. Also 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	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.
Testosterone baseline For more information, see Appendix C	19.00	Endocrinology	Monday	1-8 days	1 mL serum	plastic or glass tube	Refrigerate
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

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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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## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
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
Trichomonas Fecal Examination  Trichomonas pouches are available from AHDC Shipping	25.00	Parasitology	M-F	12 days	fecal swab in trichomonas In-Pouch (see instructions with In-Pouch)	trichomonas In-Pouch	Do NOT Refrigerate
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

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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.

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## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Urine Culture	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.
<p>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.</p>							
Virus FA	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
<p>See also specific Viral FA tests  Refer to individual FA tests</p>							
Virus Isolation	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
<p>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.</p>							
Vitamin A in serum	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
<p>(High Performance Liquid Chromatography)  Analysis for retinol (vitamin A) using HPLC. Separate serum and remove from clot immediately. Protect from light and keep cool.</p>							
Vitamin E in serum	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
<p>(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.</p>							
von Willebrand factor - large animal/exotic	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
<p>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</p>							
von Willebrand factor Collagen Binding Assay	43.00	Comparative Coagulation	bi-weekly	1-2 wks	citrate plasma	plastic or siliconized glass tube in styrofoam box	Refrigerate/ship on cold pack
<p>Functional ELISA  Ship Overnight; requires vWF:Ag on same sample; for additional info on Submission Guidelines, or see Comp Coag web page</p>							
West Nile Virus (WNV) PCR	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
<p>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.</p>							

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
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.
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.