

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 & Sensitivity - CUHA	55.00	Bacteriology					
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 Test Info and Protocols for more information Test reference ranges can be found at Clinpath Reference Intervals. For test interpretation, refer to eclinpath.com							
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 Test Info and Protocols for more information Test reference ranges can be found at Clinpath Reference Intervals. For test interpretation, refer to eclinpath.com							
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.
For more information, see Test Info and Protocols. Test reference ranges can be found at Clinpath Reference Intervals. For test interpretation, refer to eclinpath.com							
Ammonia	54.00	Clinical Pathology	M-F	1 day	Separated plasma from a purple top (EDTA) or green top (heparin) tube. See https://ahdc.vet.cornell.edu/Sects/ClinPath/sample/test/a/mmonia.cfm specific for collection instructions.	Purple top (EDTA) or green top (heparin) tube	Separate and freeze plasma immediately. Ship to lab on dry ice (sample must stay frozen during transit). Mark the outside of the shipping box: PERISHABLE KEEP COOL.
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							

Last Updated: 11/13/2018 * 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>
VSS-WEB-077-V01 ** "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	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.
See Test Info and Protocols for more information. Test reference ranges can be found at Clinpath Reference Intervals. For test interpretation, refer to eclinpath.com							
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.
Anaerobic Bacterial 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.
<p>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.</p>							
Anaplasma phagocytophilum (Ehrlichia equi) PCR	36.75	Molecular Diagnostics	M-F as needed	2-3 days	1) EDTA blood, buffy coat (min. 2 mL); 2) tick: see comment; 3) tissue (min. 5 g)	unbreakable, leak-proof container	Refrigerate
<p>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.</p>							
Anaplasmosis c-ELISA	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.
<p>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.</p>							
Anesthetic Screen	331.00 per /sample	Toxicology	M-F as needed	3 business d	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.
<p>Qualitative screening for acepromazine, barbiturates, ketamine, morphine, xylazine, tiletamine/zolazepam. Special request only; contact Lab.</p>							
Antibiotic Susceptibility	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.
<p>3 cultures/plate, fresh culture</p>							
Antimicrobial Susceptibility (MIC)	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.
<p>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 .</p>							

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Antimicrobial Susceptibility, Ophthalmology	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.
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							
Antimicrobial Susceptibility, Urine	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.
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.							
Antithrombin (AT3)	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.
Ship Overnight. For additional info see Submission Guidelines, or see Comp Coag web page							
aPTT (Activated Partial Thromboplastin Time)	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.
Ship Overnight. For additional info see Submission Guidelines, or see Comp Coag web page							
aPTT Inhibitor Screen	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.
Ship Overnight; requires aPTT on same sample; for additional info see Submission Guidelines, or Comp Coag web page							
Arsenic, blood/water/urine	40.00 /sample	Toxicology	M-F	3 business da	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 da	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.
See Test Info and Protocols for more information Test reference ranges can be found at Clinpath Reference Intervals. For test interpretation, refer to eclinpath.com							
Aspartate Aminotransferase (AST), urine	16.50	Clinical Pathology	M-Sa	1-2 days	1 mL urine	plain glass or plastic tube	Refrigerate. Ship in insulated container with ice pack.
Bacterial General ID	20.00 /sample; Out of state price - \$25.00	Quality Milk Production Services	M - F	2 days	10-50 gms milk, water, teat dip	clean, sealed container	Freeze
quantitative counts for milk, teat dip and water							
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.							

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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.
<p>A modification of the Berlese Apparatus used to retrieve nematode such as lungworm, larvae from feces. The Baermann Technique is not recommended as a primary diagnostic technique for evaluation of parasites in feces. It is not useful for those nematode larvae that do not leave the feces or other biological material, or for detection of parasite eggs or cysts that may be in the fecal sample. Some lungworm larvae are retrieved using this technique, but some larvae such as those of <i>Filaroides hirthi</i>, <i>Filaroides osleri</i>, <i>Strongyloides</i> sp. and <i>Dictyocaulus</i> sp. are better recovered using flotation techniques. Lungworms, such as <i>Eucolus</i> (<i>Capillaria</i>) <i>aerophilus</i>, that do not produce larvae are detected only by using flotation methods as well. Any fecal sample submitted for this procedure must be freshly voided so that the sample is not contaminated by free-living nematodes. It is strongly recommended to use a fecal flotation technique when lungworms are suspected.</p>							
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)
<p>(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, Phentoiazine, 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.</p>							
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.
<p>See Test Info and Protocols for more information. Test reference ranges can be found at Clinpath Reference Intervals. For test interpretation, refer to eclinpath.com</p>							
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.
<p>Bethesda units/mL: measure of factor inhibitory activity Ship Overnight. For additional info see Submission Guidelines or Comp Coag web page</p>							
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.
<p>See Eclinpath for more information</p>							
Bile Acids, Fasting Panel	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.
<p>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). For test interpretation, refer to eclinpath.com. See Test Info and Protocols for more information</p>							
Bile Acids, 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.
<p>Post-Prandial Panel For test interpretation, refer to eclinpath.com See Test Info and Protocols for more information</p>							
Bile Acids, Random Panel	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.
<p>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). For test interpretation, refer to eclinpath.com See Test Info and Protocols for more information</p>							

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Bilirubin Panel (total, direct, indirect)	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.
Includes Total, direct, and indirect bilirubin. For test interpretation, refer to eclinpath.com See Test Info and Protocols for more information. Test reference ranges can be found at Clinpath Reference Intervals.							
Bilirubin, Total	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
Test reference ranges can be found at Clinpath Reference Intervals For test interpretation, refer to eclinpath.com							
Blood Culture, Aerobic	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
For the isolation of aerobic bacteria in blood. Blood culture medium should be inoculated immediately when blood is drawn. See Blood Culture Technique 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.							
Blood Culture, Anaerobic	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
For the isolation of anaerobic bacteria in blood. Blood culture medium should be inoculated immediately when blood is drawn. See Blood Culture Technique 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.							
Blood Smear Evaluation	17.00	Clinical Pathology	M-Sa	1-2 days	1-2 unfixed, unstained blood smears prepared at the time of sample collection	1) Purple top (EDTA) tube, 2) Ship slides in a plastic or cardboard slide holder to prevent from breaking in transit.	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.
Manual WBC differential, WBC morphology, RBC morphology, platelet estimate, parasite check Flags for Clinical Pathologist Review of CBCs							
Bluetongue Virus (BTV) AGID	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.
Agarose gel immuno-diffusion. Acceptable species: Ruminant Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze.							
Bluetongue Virus (BTV) c-ELISA	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.
Enzyme linked Immuno- assay. Acceptable species: Ruminant Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze.							
Bluetongue virus real-time PCR	36.75	Molecular Diagnostics	M-F		EDTA blood, spleen, lymph node, lung, liver, swabs of vesicles or erosions	Leak-proof container	Refrigerate. Ship in insulated container with ice pack
Test under development THIS TEST FOR INTERNAL USE ONLY.							

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Bone Marrow Cytology	60.00	Clinical Pathology	M - F	1-2 days from 1)	At least 4-10 dry (unfixed, unstained) bone marrow smears	Ship slides in a plastic or cardboard slide holder to prevent from breaking in transit.	Hold at room temperature; DO NOT refrigerate smears; protect from chilling during shipment with insulation.
<p>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 test interpretation, refer to eclinpath.com For instructions on making blood smears see https://ahdc.vet.cornell.edu/Sects/ClinPath/sample/test/hema.cfm#Bloodsmear</p>							
Bovine Abortion Serology Panel	61.50 per single sample	Multiple Sections			Maternal serum	red top blood collection tube	ship chilled
<p>Tests included in this panel are: Bovine Virus Diarrhea Virus (BVDV) SN, Type 1; Brucella card agglutination; Infectious Bovine Rhinotracheitis (IBR) (BHV-1) kinetic ELISA; Leptospira MAT, 5 standard serovars; Neospora IFA. Bovine abortion Serology Plan Selenium on maternal EDTA whole blood should be ordered separately using test code XBASPS. When acute and convalescent samples are/will be collected, for most serology assays they should always be tested in parallel, and paired results interpreted. If acute samples are submitted alone please indicated if all tests should be performed. If second, convalescent samples are later submitted, tests on both samples will be run in parallel and fees for both samples will be charged. To avoid testing acute samples twice, hold and submit with convalescent samples. If convalescent samples will not be collected, or when infectious abortion is strongly suspected due to history, immediate testing of acute sample may be warranted. For more information, please see Bovine Diagnostic Plans/Panels.</p>							
Bovine Abortion Serology Panel + Selenium	89.50	Multiple Sections	M-F	5-9 days	Maternal serum (separated) and maternal EDTA whole blood (LTT)	Red top and lavender top blood collection tubes	Refrigerate. Ship in insulated container with ice packs.
<p>This Panel includes: Bovine Virus Diarrhea Virus Type 1 serum neutralization, Brucella card agglutination, Infectious Bovine Rhinotracheitis (IBR, BHV-1) kinetic ELISA, Leptospira MAT 5 standard serovars, Neospora IFA and whole blood Selenium.</p>							
Bovine Abortion Virus Isolation	70.00 /animal	Virology	M-F	21-30 days, s	1) Placenta; 2) Fetal tissues (Lung, kidney, liver, adrenal, spleen)	Sealable plastic bag or container	Ship in insulated container with ice packs
<p>Includes: BVDV, BHV-1 + Unknowns</p>							
Bovine Adenovirus FA	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.
<p>Fluorescent antibody Nasal or pharyngeal swabs are only appropriate for virus isolation</p>							
Bovine Coronavirus (BCV) FA	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.
<p>Flourescent antibody If Viral Transport media is unavailable, put swabs into a red top tube with a few drops of saline.</p>							
Bovine Coronavirus PCR	36.75	Molecular Diagnostics	M-F as needed	3-5 days	1) Feces; 2) Fecal swab 3) Intestinal tissue 4) Nasal swab; 5) Lung tissue	1) unbreakable leak-proof container; 2) Red top tube; 3) leakproof container; 4) Red top tube, 5) Leakproof container	Refrigerate
<p>The beta coronavirus PCR employed by the AHDC will detect canine respiratory coronavirus, camelid enteric coronavirus, equine enteric coronavirus and the respiratory and enteric coronaviruses of cattle. Submit swabs in sterile, sealed vials with several drops of saline added, to prevent desiccation. Bacterial transport media are not appropriate for PCR assays. If culture is desired, submit a separate swab in an acceptable bacterial transport media. Cotton, plastic, wood-handled, and Dacron and other synthetic swabs are all acceptable for PCR-based assays. Calcium alginate swabs should be avoided. This service is performed pursuant to an agreement with Roche Molecular Systems.</p>							
Bovine Diarrhea, Adult (Acute) Diagnostic Plan	153.75	Multiple Sections	M-F	Up to 30 days	(1) Fresh Feces (20 g) AND (2) EDTA whole blood2 (LTT).	(1) leak-proof container and ParaPak® transport media; AND (2) lavender top blood collection tube	Refrigerate and ship in insulated container with ice packs
<p>Tests included in this Plan are: Beta Coronavirus PCR, Bovine Virus Diarrhea Virus Isolation, Quantitative Fecal Analysis, Johne's Fecal PCR, Salmonella Culture. Antibiotic susceptibility is not included in the plan.</p>							
Bovine Diarrhea, Adult (Chronic) Diagnostic Plan	89.25	Multiple Sections	M-F	7-10 days. Re	1) Fresh feces in leak-proof container (20 g) AND 2) Serum (separated) or ear notch.	1) leak-proof container and ParaPak® transport media to assist with Salmonella recovery; 2) Red top blood collection tube or sterile container	Refrigerate. Ship in insulated container with ice pack.
<p>Testing included in plan are: Bovine Diarrhea Virus Antigen Capture ELISA, Quantitative Fecal Analysis, Johne's Fecal PCR, Salmonella Culture</p>							

Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Bovine Diarrhea, Calf (Acute) Diagnostic Plan; Ante mortem	289.00 or more.	Multiple Sections	Mon - Fri		(1) Fresh feces; (2) Frozen feces; (3) Fecal swab; (4) EDTA whole blood; (5) Fresh ear notch; (6) Feces for Salmonella culture	(1,2) Leak-proof container; (3) Anaerobic transport medium; (4) Lavender topped blood tube; (5) Plastic tube; (6) ParaPak transport media	Keep frozen samples frozen and refrigerate all samples EXCEPT for anaerobic transport media and ParaPak® samples which should be kept at room temperature.
This panel, for testing samples from live animals, includes: Aerobic bacterial culture (NO sensitivity included); Anaerobic bacterial culture; Beta Coronavirus PCR; Bovine Virus Diarrhea Virus (BVDV) Antigen Capture ELISA; Clostridium perfringens Enterotoxin; Fecal quantitative, if = 3 days old; Rotavirus Antigen Detection, Group A; Salmonella culture; Bovine Virus Diarrhea Virus (BVDV) PCR Additional charges will be added for antimicrobial susceptibilities. For more information, please see Bovine Diagnostic Plans and Panels.							
Bovine Herpesvirus-1 (BHV-1) (IBR) FA	25.00 /animal	Virology	M-F	2-4 days	1)Tracheal wash, broncho-alveolar lavage; 2) Lung tissue; 3) Fetal tissues (Lung, liver, kidney, spleen, adrenal; 4) Placenta	1) Leakproof container; 2,3,4) Sealable plastic bag or container	Ship in insulated container with ice packs.
Fluorescent antibody Nasal or pharyngeal swabs are only appropriate for virus isolation and PCR							
Bovine Herpesvirus-1 (BHV-1) (IBR) Virus Isolation	70.00 /animal	Virology	M-F	21-30 days, s	1) Nasal swab, pharyngeal swab; 2) Tracheal wash, broncho-alveolar lavage; 3) Lung tissue; 4) Fetal tissues (Lung, liver, kidney, spleen, adrenal; 5) Placenta	1) Swabs in Viral Transport Medium; 2) Leakproof container; 3, 4, 5) Sealable plastic bag or container	Freezer Packs
Virus Isolation If viral transport media is unavailable, put swabs in a red top tube with a few drops of saline.							
Bovine Herpesvirus-2 (BHV-2) (Mammitis) FA	25.00 /animal	Virology	M-F	2-4 days	1) Fresh skin, teat or udder lesions	1) Tissue in a few drops of saline in leakproof container, or in Viral Transport Medium	Ship in insulated container with ice packs.
Flourescent antibody							
Bovine Herpesvirus-2 (BHV-2) (Mammitis) IFA	16.50	Virology	M-F	3 days	1 mL serum	red top blood collection tube	It is recommended to ship samples with an ice pack.
Indirect fluorescent antibody Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze.							
Bovine Herpesvirus-2 (BHV-2) (Mammitis) Isolation	70.00 /animal	Virology	M-F	21-30 days, s	1) Fresh skin, teat or udder lesions; 2) Vesical fluids	1) Viral transport medium; 2) Undiluted in sterile tube	Ship in insulated container with ice packs.
Virus Isolation Swabs in bacterial transport medium are not appropriate for virus isolation or PCR testing.							
Bovine Herpesvirus-2 (Mamm) SN	16.50 /sample	Virology	As needed	5-9 days	2 mL serum	red top blood collection tube	It is recommended to ship samples with an ice pack.
Serum Neutralization Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze.							
Bovine Herpesvirus-4 (BHV-4) IFA (DN-599)	16.50 /sample	Virology	M-F	3 days	2 mL serum	red top blood collection tube	It is recommended to ship samples with an ice pack.
Indirect fluorescent antibody Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze.							
Bovine Herpesvirus-4 (BHV-4) SN (DN-599)	16.50	Virology	As needed	8 days	2 mL serum	red top blood collection tube	It is recommended to ship samples with an ice pack.
Serum Neutralization Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze.							
Bovine Leukosis Virus (BLV) AGID	6.00	Virology	M-Th	2-4 days	1 mL serum or plasma	red top blood collection tube	It is recommended to ship samples with an ice pack.
Agarose gel immuno-diffusion. Acceptable species: Bovine This test is maintained for regulatory/export testing purposes or to assist in evaluating potential false positive results on other testing. The default test used at the AHDC for Bovine Leukosis Virus serology testing in cows is the Bovine Leukosis Virus ELISA test. Accessions requesting this AGID test must provide the reason for selecting the AGID test or they will automatically be tested using the ELISA assay. Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze.							

Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Bovine Leukosis Virus (BLV) ELISA Enzyme linked Immuno-assay. Acceptable species: Bovine Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze.	6.00	Virology	2x/wk	2-4 days	1 ml serum, plasma is not an acceptable sample for this test	red top blood collection tube	It is recommended to ship samples with an ice pack.
Bovine Metabolic Panel BHBA, NEFA, UN, Albumin, AST, Cholesterol, Triglycerides Includes NEFA, BHBA, AST, ALB, and BUN; for additional info see Clin Path panels Test reference ranges can be found at Clinpath Reference Intervals.	30.50	Clinical Pathology	M-Sa	1-2 days	2 mL separated serum	plain glass or plastic tube	Refrigerate
Bovine Papular Stomatitis Virus IFA Indirect fluorescent antibody Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze.	16.50 /sample	Virology	M-F	3-9 days	2 mL serum	red top blood collection tube	It is recommended to ship samples with an ice pack.
Bovine Parainfluenza-3 (BPIV-3) Virus FA Fluorescent antibody Nasal or pharyngeal swabs are only appropriate for virus isolation	25.00 /animal	Virology	M-F	2-4 days	1) Tracheal wash, broncho-alveolar lavage; 2) Upper airway tissue, lung	1) Leakproof container; 2) Sealable plastic bag or container	Freezer Packs
Bovine Parainfluenza-3 (BPIV-3) Virus Isolation Virus Isolation If viral transport media is unavailable, put swabs in a red top tube with a few drops of saline.	70.00 /animal	Virology	M-F	21-30 days, s	1) Nasal swab, pharyngeal swab; 2) Tracheal wash, broncho-alveolar lavage; 3) Upper airway tissue, lung	1) Swabs in Viral Transport Medium; 2) Leakproof container; 3) Sealable plastic bag or container	Freezer Packs
Bovine Parainfluenza-3 (BPIV-3) Virus SN Serum neutralization Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze.	14.50 sample	Virology	F	10-14 days	1 ml serum	red top blood collection tube	It is recommended to ship samples with an ice pack.
Bovine Parvovirus FA Fluorescent antibody	25.00 /animal	Virology	M-F	2-4 days	Fresh jejunum, ileum	Sealable plastic bag or container	Ship in insulated container with ice packs.
Bovine Pinkeye Diagnostic Plan Tests included are: Aerobic culture (1 sensitivity included); Bovine Herpesvirus-1 (BHV-1) (Infectious Bovine Rhinotracheitis) FA; Mycoplasma culture	120.00 price	Multiple Sections			1) Conjunctival swab in aerobic transport media (Amies w/out charcoal) and 2) Conjunctival scraping on glass slide and air dried	1) Amies transport media w/out charcoal; 2) glass slide in slide holder	1) Ship swab chilled; 2) Slide at room temperature.
Bovine Respir Syncytial Virus (BRSV) FA Fluorescent antibody Nasal or pharyngeal swabs are only appropriate for virus isolation	25.00 /animal	Virology	M-F	2-4 days	1) Tracheal wash, broncho-alveolar lavage; 2) Upper airway tissue, lung	1) Leakproof container; 2) Sealable plastic bag or container	Ship in insulated container with ice packs.
Bovine Respir Syncytial Virus (BRSV) SN Serum neutralization Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze.	14.50 /sample	Virology	W	5-9 days	1 mL serum	red top blood collection tube	It is recommended to ship samples with an ice pack.
Bovine Respiratory Disease Virus Isolation Includes: BRSV, BHV-1, BPIV-3, BVDV, BCoV, Bov. Adeno + Unknowns Swabs in bacterial transport medium are not appropriate for virus isolation or PCR testing.	70.00 /animal	Virology	M-F	21-30 days, s	1) Nasal swab, pharyngeal swab; 2) Tracheal wash, broncho-alveolar lavage; 3) Upper airway tissue, lung	1) Swabs in Viral Transport Medium; 2) Leakproof container; 3) Sealable plastic bag or container	Ship in insulated containers with ice packs
Bovine Respiratory Syncytial virus PCR This assay detects nucleic acid or the genetic material of the virus	36.75	Molecular Diagnostics	M - F	2-3 days	Nasal swab, trans-tracheal wash, lung, trachea	Red top tube with saline or leak proof screw top container	Refrigerate

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Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Bovine Rotavirus FA Fluorescent antibody	25.00 /animal	Virology	M-F	2-4 days	Fresh small intestine	Sealable plastic bag or container	Ship in insulated container with ice packs.
Bovine Rotavirus real-time PCR This test is intended primarily for research applications at this time. Please contact the lab for volume discounts.	36.75	Molecular Diagnostics	M-F	3-5 days	Feces or intestinal tissue	Sealed vial in a secondary container	Refrigerate. Ship in insulated container with ice pack.
Bovine Virus Diarrhea Virus (BVDV) Ag Capture ELISA (ACE) Antigen Capture ELISA The current ACE test has been validated for use with 1mm diameter ear punch samples in addition to the standard large biopsy specimens. However, the volume of sample buffer must be restricted to 0.25 ml with the small specimens as compared to the volume (2 ml) for the standard skin biopsies. If you are planning to submit small biopsy specimens, contact the lab for instructions. Small biopsies submitted in 2 ml buffer volumes must be rejected for testing and there will be no exceptions. If you have any doubt about the acceptability of the sample size, remove the sample buffer from the AHDC sample tubes and submit the sample in the dry tube. An additional processing fee of \$1.00/sample will be charged for ear notch samples that are not submitted in a container that can be directly used to conduct the test. The AHDC does supply collection tubes at cost. See suitable collection containers below. Ear notches placed in plastic bags are not acceptable for processing for the test. As with all tests for PI animals, the ACE test will occasionally detect an acutely infected animal. Accordingly, all test positive animals should be retested > 2 weeks from the initial sampling to verify PI status. The AHDC will continue to offer these retests at no charge if we tested the previous sample. For more information on BVD testing in cattle, please see the fact sheet, Testing Options for Detection of Individual Bovine Virus Diarrhea Persistently Infected (BVD PI) Animals.	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) ice packs preferred; 2,3) Ship in insulated container with ice packs	1) No coolant; 2,3) Ship in insulated container with ice packs.
Bovine Virus Diarrhea Virus (BVDV) Bulk Tank Milk PCR Includes BVD PCR and BVD virus isolation Ship Overnight -- do not freeze! Arrange for M-Th delivery -- maximum 400 animals. For more information see Bulk Milk Tank Testing for the Detection of BVD Persistently Infected Cows. This service is performed pursuant to an agreement with Roche Molecular Systems.	63.00	Molecular Diagnostics	M-F as needed	2-3 days	bulk tank milk: see comment (min. 200 mL)	unbreakable, leak-proof container	Refrigerate. Ship in insulated container with ice pack. DO NOT freeze
Bovine Virus Diarrhea Virus (BVDV) FA Fluorescent antibody. Detects BVDV types 1 and 2	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.
Bovine Virus Diarrhea Virus (BVDV) Genotyping Ship Overnight - Do not freeze! Contact laboratory with questions.	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
Bovine Virus Diarrhea Virus (BVDV) Isolation Virus isolation. Detects BVDV types 1 and 2 Swabs in bacterial transport medium are not appropriate for virus isolation or PCR testing.	70.00 /animal	Virology	M-F	21-30 days, s	1) Fresh tissue lesions, esophogus, mesentary lymph nodes, Peyer's patches, spleen, kidney; 2) Fetal tissues, (lung, kidney, heart, spleen); 3) Whole blood	1) Sealable plastic bag or container; 2) Sealable plastic bag or container; 3) Purple top EDTA blood tube	Ship in insulated container with ice packs.
Bovine Virus Diarrhea Virus (BVDV) PCR 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.	36.75	Molecular Diagnostics	M-F as needed	2-3 days	1) EDTA blood, plasma, serum (min. 2 mL): see comment for age limitations; 2) tissue (min. 5 g); 3) milk (min. 1 ml/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
Bovine Virus Diarrhea Virus (BVDV) Serum Isolation Virus 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

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VSS-WEB-077-V01 ** "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
Bovine Virus Diarrhea Virus (BVDV) SN, Type 1 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.	14.50 /sample	Virology	M, Th	5-9 days	1 mL serum	red top blood collection tube	It is recommended to ship samples with an ice pack.
Bovine Virus Diarrhea Virus (BVDV) SN, Type 2 Serum neutralization, BVDV type 2 Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze. Paired serum samples are recommended for optimal diagnostic test interpretation.	14.50 sample	Virology	M, Th	5-9 days	1 mL serum	red top blood collection tube	It is recommended to ship samples with an ice pack.
Bovine Virus Diarrhea Virus (BVDV) Whole Blood Isolation Virus Isolation For acute disease or to test calves less than 3 months. This test can be used for detection of individual BVD Persistently Infected (PI) animals. See also testing options for BVD Persistently Infected Cattle and Camelids	27.50	Virology	M-F	14 days	5 ml EDTA whole blood	lavender top tube	Refrigerate, ship in insulated container with ice pack
Bronchoalveolar Lavage Count Cytology (smear exam and count: 56.00 Report includes - Specimen type and site (provided by submitter), Volume, Color, Turbidity, Nucleated cell count, RBC count, Smear type, Smear description, Smear Interpretation, respiratory Please also submit 2-3 freshly prepared smears of the BAL fluid and specify smear type, i.e. direct or sediment, on the smears and on the cytology submission form. Do not allow coolant to come in contact with specimen; ship overnight. STAT service available for same day results (extra charges apply). For additional information see Cytology Testing	56.00	Clinical Pathology	M - F	1-2 days from	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) Purple top (EDTA) tube, 2) Ship slides in a plastic or cardboard slide holder to prevent from breaking in transit.	Refrigerate. Ship in insulated container with freezer pack for next day delivery. Hold slides at room temperature; protect slides from chilling/coolant by insulating separately during shipment.
Bronchoalveolar Lavage Cytology (smear exam only) Report includes - Specimen type and site (provided by submitter), Smear type, Smear description, Smear Interpretation With fluid samples of BAL, please also submit 2-3 freshly prepared smears and specify smear type, i.e. direct or sediment, on the smears and on the cytology submission form. Do not allow coolant to come in contact with specimen; ship overnight. STAT service available for same day results (extra charges apply). For additional information see Cytology Testing	48.00	Clinical Pathology	M - F	1-2 days from	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) Purple top (EDTA) tube, 2) Ship slides in a plastic or cardboard slide holder to prevent from breaking in transit, 3) red top if culture anticipated	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
Brucella Card Agglutination Non-canine This test will not reliably detect Brucella ovis, Brucella mellitensis, Brucella canis, or Brucella suis. It is intended as a screening test for the detection of antibodies against Brucella abortus.	3.50 /animal	Brucellosis	M-F	1-4 days	1) 2 mL serum; 2) clotted whole blood	1-2) red top blood collection tube	Refrigerate. Ship in insulated container with ice pack.
Brucella Culture, non-canine For the isolation of Brucella species only. *May qualify for New York State contract pricing. Antimicrobial susceptibilities are not applicable. Refer to Brucella canis Culture for canine submissions.	25.00 /sample	Bacteriology	M-F	5-14 days	Affected tissue, lesion or fluid aspirate	Amies transport media (swab) or sealed sterile containers	Refrigerate. Ship in insulated container with ice pack.
Brucella Fluorescence Polarization Assay (FPA) Designed to meet export, and interstate shipping requirements where requested. For canines, see Canine Brucella in the Bacteriology section	4.00	Bacteriology	M - F	1 - 2 days	100 ul Serum, plasma, whole blood	Red top blood collection tube, serum separator tube	Refrigerate
Brucella Fluorescence Polarization Assay (FPA) Tube Test Designed to meet export, and interstate shipping requirements where requested: for canines, see Canine Brucella in the Bacteriology section.	4.00	Bacteriology	M - F	1 - 2 days	100 ul Serum, plasma, whole blood	Red top blood collection tube, serum separator tube	Refrigerate

Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Bulk Milk Aerobic Culture no preservative	15.00 in state; \$20.00 out of state.	Quality Milk Production Services	M-F	48 hours	1-15 ml Milk or Water	Clean, sealed container	Refrigerate or freeze sample. Ship in insulated container with ice pack.
Cadmium (Atomic Absorption Spectroscopy - Graphite Furnace)	35.00	Toxicology	M-F	3 days	1) 2g tissue; 2) 100g feed	1) sterile container; 2) any container	1) Refrigerate; 2) none
Calcium Measures total calcium in serum, plasma and fluids. See Test Info and Protocols for more information Test reference ranges can be found at Clinpath Reference Intervals. For test interpretation, refer to eclinpath.com	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 FA For the detection of Campylobacter fetus in ruminants by fluorescent antibody stain. May qualify for New York State contract pricing. Please consider using the: Ovine Abortion Plan, Caprine Abortion Plan or Camelid Abortion Plan for abortion submissions. **This test is only for diagnostic purposes and is not available for Regulatory testing requirements (refer to Campylobacter fetus Culture). Samples must be submitted and received in the laboratory within 6-8 hours of collection and placed in an insulated container under refrigerated conditions and protected from light during transport. Submissions not fulfilling these requirements will not be tested. Lactated Ringer's solution is available for purchase. See also collection instructions for bulls and cows. ***Abortion samples should be refrigerated immediately and submitted to the laboratory within 24 hours, preferably same day whenever possible. Detection of Campylobacter fetus 24 hours or more post mortem may not be possible.	16.00 /sample	Bacteriology	Tuesday and 3-4 days Friday	1) Bovine preputial wash, vaginal wash, or cervical mucus**; 2) Caprine, Ovine, Camelid fetal liver, placenta/cotyledon or abomasal contents***	1) Lactated Ringer's Solution (see Comment**); 2) Separate sealed containers (sterile preferred), red-top tube for abomasal content	1) Refrigerate and deliver same day as collection in insulated container with ice packs - do not freeze; 2) Refrigerate and deliver same day or ship overnight in insulated container with ice packs	
Campylobacter jejuni Culture For the isolation of Campylobacter jejuni. Test is also part of the Enteric Panel 2 and Enteric Panel 3. Antimicrobial susceptibilities are not applicable. Recent data has shown a dramatic shift among the species of Campylobacter involved in small ruminant and camelid abortion cases. Increases have been documented in the incidence of Campylobacter jejuni abortions with research showing that it has now replaced Campylobacter fetus subsp. fetus as the predominant cause of sheep abortions in the United States. We will continue to offer fluorescent antibody (FA) testing for Campylobacter fetus subsp. fetus, however the culture has been discontinued and replaced with Campylobacter jejuni culture.	25.00 /sample	Bacteriology	M-S	3-5 days	1) Fresh feces or intestinal contents; 2) ligated loop of intestine; 3) Placenta (preferred) or fetal liver for small ruminant and camelid abortion cases; 4) Swab of 1 or 2	1-3) Sealed sterile separate containers (sterile preferred); 4) Swab in Amies transport media (w/charcoal preferred)	1-2) Refrigerate
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	1-2 days from	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) Purple top (EDTA tube), 2) red top (no anticoagulant) tube only if culture anticipated	Refrigerate fluids. Ship overnight in insulated container with freezer packs. Keep slide at room temperature; protect from chilling/coolant by insulating separately during shipment.
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

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Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Chlamydia CF Complement Fixation Species tested: bovine, ovine, caprine and feline Note: This test has not been validated on feline species. Contact laboratory before submitting samples from any other species. Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze.	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. Bacterial transport media are not appropriate for PCR assays. Our laboratory does not currently offer Chlamydia culture testing but we are sometimes asked to refer samples for Chlamydia culture to another laboratory offering the service. 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 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 Test Info and Protocols for more information Test reference ranges can be found at Clinpath Reference Intervals. For test interpretation, refer to eclinpath.com	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 See Test Info and Protocols for more information Test reference ranges can be found at Clinpath Reference Intervals. For test interpretation, refer to eclinpath.com	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 Test Info and Protocols for more information Test reference ranges can be found at Clinpath Reference Intervals. For test interpretation, refer to eclinpath.com	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. See Test Info and Protocols for more information. Test reference ranges can be found at Clinpath Reference Intervals.	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
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.

Animal Health Diagnostic Center Test and Fee Schedule

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 (10) FX Activity, Large-Exotic The measurement of Factor X coagulant activity 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 (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	

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Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Coagulation Panel, Large Animal Incl. aPTT, PT, Fibrinogen Ship Overnight: for additional info on Submission Guidelines, or see Comp Coag web page	42.50	Comparative Coagulation	M-F	same day	2 mL separated citrate plasma	plastic or siliconized glass tube in styrofoam box	Refrigerate/ship on cold pack
Copper, serum/plasma Contact Lab for specifics for avian and very small animals	25.00 /sample	Toxicology	M-F	3 days	1) 2 mL serum; 2) or transfer 2 mL heparinized plasma into a red top tube	1-2) Red top tube, no gel clot	1-2) Refrigerate. Ship in insulated container with ice pack.
Coronavirus PCR, Beta The beta coronavirus PCR employed by the AHDC will detect canine respiratory coronavirus, camelid enteric coronavirus, equine enteric coronavirus and the respiratory and enteric coronaviruses of cattle. For species specific testing information please see Coronavirus PCR Guidelines. Submit swabs in sterile, sealed vials with several drops of saline added, to prevent desiccation. Bacterial transport media are not appropriate for PCR assays. If culture is desired, submit a separate swab in an acceptable bacterial transport media. Cotton, plastic, wood-handled, and Dacron and other synthetic swabs are all acceptable for PCR-based assays. Calcium alginate swabs should be avoided. This service is performed pursuant to an agreement with Roche Molecular Systems. For more information about beta coronavirus infections and prevalence in equine, refer to Equine Enteric Coronavirus Fact Sheet. *May qualify for New York State contract pricing.	36.75 /sample	Molecular Diagnostics	M-F as needed	2-3 days	1) Feces; 2) Fecal swab 3) Intestinal tissue 4) Nasal swab; 5) Lung tissue	1) unbreakable leak-proof container; 2) Red top tube; 3) leakproof container; 4) Red top tube, 5) Leakproof container	Refrigerate. Ship in insulated container with ice pack.
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	2 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 Test Info and Protocols for more information Test reference ranges can be found at Clinpath Reference Intervals For test interpretation, refer to eclinpath.com	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 Test Info and Protocols for more information. Test reference ranges can be found at Clinpath Reference Intervals. For test interpretation, refer to eclinpath.com	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.

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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	1-2 days	from At least 2 unstained smears. Label slides in pencil with the patient name and sampled site.	Ship slides in a plastic or cardboard slide holder to prevent from breaking in transit, and a purple top (EDTA) 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							
Dermatology Biopsies (1-5 sites)	30.00 in addition to base surgical biopsy (HISTO) charge	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
Dermatohistopathology Submission Form) Includes up to 5 sites or 5 skin punch biopsies processed for dermatohistopathology evaluation. Please identify multiple biopsies that need to be interpreted separately from each other (ex. submit in separate jars or mark with sutures in the same jar) Must be submitted on Dermatohistopathology Submission Form.							
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 Test reference ranges can be found at Clinpath Reference Intervals. 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	Red top (non-anticoagulant) tube. Green top (heparin) tube for exotics only.	Refrigerate
For test interpretation, refer to eclinpath.com							
Electrophoresis, fluid	60.00	Clinical Pathology	1x/wk	7-10 days	Body fluids. Please specify site.	Red top (non-anticoagulant) 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	Red top (non-anticoagulant) tube	Refrigerate
For test interpretation, refer to eclinpath.com See Test Info and Protocols for more information							

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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	2-3 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.							
Epizootic Hemorrhagic Disease (EHD) AGID	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.
Agarose gel immuno-diffusion. Acceptable species: Ruminant Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze.							
Epizootic Hemorrhagic Disease 1SN	10.00	Virology	Contact Lab	Contact Lab	1 ml serum	red top blood collection tube	It is recommended to ship samples with an ice pack.
Test not routinely set. Decision to set test will be made on a case by case basis. Please contact laboratory prior to submitting samples. Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze. Paired serum samples are recommended for optimal diagnostic test interpretation.							

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Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Epizootic Hemorrhagic Disease 2SN Test not routinely set. Decision to set test will be made on a case by case basis. Please contact laboratory prior to submitting samples. Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze. Paired serum samples are recommended for optimal diagnostic test interpretation.	10.00	Virology	Contact Lab	Contact Lab	1 ml serum	red top blood collection tube	It is recommended to ship samples with an ice pack.
Escherichia coli Genotyping PCR E. coli Genotyping PCR; bovine only The Animal Diagnostic Center uses a referral lab for non-bovine samples.	36.75	Molecular Diagnostics	M-F as needed	3-5 days	1) isolate of E. coli	1) isolate already in lab; 2) TSA slant	Refrigerate
Ethylene Glycol Special request only, contact Lab	55.00 /sample	Toxicology	M-F	2 days	1) 10 mL heparin whole blood; 2) 10 mL EDTA whole blood; 3) urine; 4) food materials; 5) stomach contents	1,2) Heparinized or EDTA tube, no gel clot 3-5) sterile, leak-proof container	1-5) Refrigerate w/ cool pack
Fecal Flotation Modified Wisconsin double centrifugation concentration technique Our fecal flotation test uses a range of flotation solutions from 1.18 to 1.33 specific gravity to create a broad spectrum test that detects actively shedding parasites. This includes protozoa, trematodes, cestodes, nematodes, acanthocephalans, etc in a wide variety of hosts (domestic pets, farm animals, wild animals, exotics and zoo animals). Additionally, parasites will be quantified based on host (i.e. ruminants, camelids, horses, farm animals, and large exotics/wild animals), sample condition (diarrheic samples will not be quantified), and when requested for research testing. Samples from individual animals are preferred. For best results submit fresh/refrigerated samples within seven days of collection. Samples that are preserved in 10% formalin or 70% alcohol can be tested but the preservative may compromise the quality of the sample for parasite detection.	25.00	Parasitology	M - F	1-3 days	10g fresh fecal samples from animals 3 days of age or older	leak-proof container	Refrigerate. Ship overnight in insulated container with ice packs.
Fecal Flotation with Discount Modified Wisconsin double centrifugation concentration technique A discount is given to submissions with 6/+ fecal flotations. See Fecal Flotation test for more test details	20.00	Parasitology	M - F	1-3 days	10g fresh fecal samples from animals 3 days of age or older	leak-proof container	Refrigerate. Ship overnight in insulated container with ice packs
Fecal Wet Mount Was previously called "Direct Fecal Smear" Exam for motile parasites. This test for Cornell CUHA only (must be read within 1 hr of fecal production by host). See Trich. Fecal Exam, Staining for Other Protozoa, or Giardia ELISA	5.50	Parasitology	M-F	1 day	10g fresh fecal sample	wide mouth leak-proof container	Do NOT Refrigerate
Fibrinogen Quantitative measure of clottable fibrinogen (Clauss method) Ship Overnight; for additional info on Submission Guidelines, or see Comp Coag web page	22.00	Comparative Coagulation	M-F	same day	1 mL separated citrate plasma	plastic or siliconized glass tube in styrofoam box	Refrigerate/ship on cold pack
Fibrinogen (antigen) Fibrinogen concentration; ELISA method Ship Overnight; for additional info on Submission Guidelines, or see Comp Coag web page	43.00	Comparative Coagulation	Tu, F	1-3 days	1 mL separated citrate plasma	plastic or siliconized glass tube in styrofoam box	Refrigerate/ship on cold pack
Fibrinogen (heat-precipitation) Formerly named Fibrinogen (Schalm's) Do not allow coolant to come in contact with specimen. This test is not recommended for small animals due to its inaccuracy and insensitivity. The preferred method for small animals is measurement of clottable fibrinogen (citrate plasma) offered in the Comparative Coagulation lab. Test reference ranges can be found at Clinpath Reference Intervals. For test interpretation, refer to eclinpath.com/hemostasis	16.00	Clinical Pathology	M-Sa	1-2 days	EDTA blood (> 1/2 full)	lavender top tube	Refrigerate. Ship overnight in insulated container with freezer packs.
Field Necropsy Surcharge 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. 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.	56.00 in addition to standard histopathology fee.	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

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Animal Health Diagnostic Center Test and Fee Schedule

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Fluphenazine (LC/MS) (Liquid Chromatography/Mass Spectrometry) Liquid Chromatography/Mass Spectrometry (LC/MS)	165.50 /sample	Toxicology	M-F	1-3 days	1) 10 mL heparine whole blood; or 2) 5 mL heparine plasma transferred to red top tube	Heparinized tube, no gel clot	Refrigerate with cold pack
Formalin-fixed tissue extraction surcharge (Molecular Diagnostics 20.00) Surcharge added to fixed tissues due to the extra labor and materials needed for the nucleic acid extraction procedure.		Molecular Diagnostics	M-F		Formalin-fixed tissues		Room temp
Fructosamine See Test Info and Protocols for more information. Test reference ranges can be found at Clinpath Reference Intervals. For test interpretation, refer to eclinpath.com	36.00	Clinical Pathology	M-Sa	1-2 days	1 mL separated serum	red top blood collection tube	Refrigerate. Ship overnight in insulated container with freezer packs
Fungal Culture For the isolation of yeasts, dermatophytes and other filamentous fungi. *May qualify for New York State contract pricing. **Swabs are not encouraged for tissues or body fluids. Keep tissues moist. Ship overnight. Antifungal susceptibilities are not included in the testing fee.	47.00 /sample	Bacteriology	M-F	28+ days	1)Nails, skin scrapings or 10-12 hairs from border of lesion; combings from asymptomatic cats (dermatophytes); 2)Fresh tissue or body fluids (systemic fungi/yeast); 3)Ear (yeast); 4) Swab of lesion, tissue, fluid or ear	1) DRY sterile sealed container (e.g. closed urine cup or envelope); 2) Fluid or tissue in Sterile, sealed container (e.g. red top blood collection tube); 4) Swab in Amies transport media**	1) Not required; 2) Refrigerate
Fungal ID For the identification of pure fungal isolates (filamentous fungi or yeast). Submissions accepted from Laboratories only. Ensure purity before shipment. Follow all biohazard shipping regulations. Provide animal history and suspected identification if possible. Antifungal susceptibilities are not included in the testing fee.	47.00 /isolate	Bacteriology	M-F	28+ days	Fungal isolate (pure culture)	Agar slant or plate (sealed)	Refrigerate
Fungal KOH Fluorescent Stain For the direct microscopic examination for yeast and fungi. *May qualify for New York State contract pricing. Swabs are not acceptable	12.00 /sample	Bacteriology	M-F	1-2 days	1)Nails, skin scrapings or 10-12 hairs from border of lesion; combings from asymptomatic cats (dermatophytes); 2)Fresh tissue or body fluids (systemic fungi/yeast); 3)Prepared slide	1) DRY sterile sealed container (e.g. closed urine cup or envelope); 2) Sterile sealed container (e.g. red top blood collection tube); 3) Slide mailer	1,3) Not Required; 2) Refrigerate
Fungal Serology Panel For the detection of antibody to Histoplasma, Blastomyces, Coccidioides and Aspergillus (AGID) and Cryptococcus antigen in serum. Tests can be requested individually. See Histoplasma AGID, Blastomyces AGID, Coccidioides AGID, Aspergillus AGID or Cryptococcus antigen. Cryptococcus antigen test can also be performed on cerebrospinal fluid (CSF).	64.00	Bacteriology	M, W, F	3-5 days	Serum	Red top blood collection tube or 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

Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
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 Test Info and Protocols for more information Test reference ranges can be found at Clinpath Reference Intervals. For test interpretation, refer to eclinpath.com	9.50 /sample (blood, fluid)	Clinical Pathology	M-Sa	1-2 days	1) 1 mL separated serum or heparinized plasma; 2) fluid	Red top (non-anticoagulant) or green top (heparin) tube	Refrigerate. Ship overnight in insulated container with freezer packs.
Gamma Glutamyl Transferase (GGT), urine	17.00	Clinical Pathology	M-Sa	1-2 days	1 mL urine	Red top (non-anticoagulant) tube or plastic leakproof container	Refrigerate. Ship overnight in insulated container with freezer packs.
Giardia ELISA ELISA plus Centrifugation Concentration Flotation with Sugar and/or Zinc Sulfate. A Fecal Qualitative or Quantitative exam will be performed with each ELISA at an additional fee. This ELISA cannot be requested alone. If both Cryptosporidium and Giardia ELISA's are ordered, only one flotation will be performed and charged.	25.00	Parasitology	Mon, Thur	1-3 days	feces	wide mouth leak-proof	Refrigerate
Glucose Glucose levels in blood and fluids Delayed serum separation or submission of whole blood (cells on serum or plasma) results in a falsely decreased (uninterpretable) glucose. Serum should also be removed promptly from serum separator tubes and placed into a new red top tube. See Test Info and Protocols for more information For test interpretation, refer to eclinpath.com Test reference ranges can be found at Clinpath Reference Intervals.	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 See Test Info and Protocols for more information. Test reference ranges can be found at Clinpath Reference Intervals. For test interpretation, refer to eclinpath.com	8.50	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.
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. Test reference ranges can be found at Clinpath Reference Intervals. For test interpretation, refer to eclinpath.com	7.00	Clinical Pathology	M-Sa	1-2 days	EDTA blood (> 1/2 full)	lavender top tube	Refrigerate. Ship overnight in insulated container with freezer packs.

Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Hemogram (CBC), Automated (Mammalian)	18.50	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	1) Refrigerate blood; ship in insulated container with freezer pack for next day delivery. Hold slides at room temperature; protect from chilling/coolant by insulating separately during shipment.
<p>WBC, RBC, HgB, HCT, MCV, MCH, MCHC, RDW, Plate Count, MPV, Automated Differential Cell Count Do not allow coolant to come in contact with specimen or slides; ship overnight. For additional info on Clin Path panels Test reference ranges can be found at Clinpath Reference Intervals. For instructions on making blood smears see https://ahdc.vet.cornell.edu/Sects/ClinPath/sample/test/hema.cfm#Bloodsmear</p>							
Hemogram (CBC), Partial	11.50	Clinical Pathology	M-Sa	1-2 days	1) EDTA blood (> 1/2 full) AND 2 dry, unfixed, unstained blood smears	1) lavender top tube; 2) frosted-end slides	Refrigerate purple top tube. Ship overnight in insulated container with freezer packs. Keep slides at room temperature; protect from chilling/coolant by insulating separately during shipment.
<p>WBC, RBC, HgB, Platelet Count, PCV, MPV, RDW, MCH, MCHC, MCV Do not allow coolant to come in contact with specimen or slides; ship overnight. For additional information see Hematology Testing. Test reference ranges can be found at Clinpath Reference Intervals.</p>							
Hemogram, Large Animal	41.00	Clinical Pathology	M - Sa	1 - 2 days	EDTA blood (tube >1/2 full) AND 2 unstained, unfixed, air-dried blood smears	1) lavender top tube; 2) frosted-end slides	Refrigerate blood; ship in insulated container with freezer packs for next day delivery. Hold slides at room temperature; protect from chilling/coolant by insulating separately during shipment
<p>WBC, RBC, HgB, HCT, MCV, MCH, MCHC, RDW, Plate Count, MPV, Morphology, Manual Differential Cell Count, Plate Smear est, Plasma Appearance, TP Protect slides from chilling/coolant during storage/shipment. Test reference ranges can be found at Clinpath Reference Intervals. For instructions on making blood smears see https://ahdc.vet.cornell.edu/Sects/ClinPath/sample/test/hema.cfm#Bloodsmear Flags for Clinical Pathologist Review of CBCs</p>							
Heparin (Low Molecular Weight)	39.25	Comparative Coagulation	M-F	same day	citrate plasma	plastic or siliconized glass tube in styrofoam box	Refrigerate/ship on cold pack
<p>Anti-Xa activity of low molecular weight heparin Ship Overnight; for determination of peak anti-Xa values, collect sample 2-3 hrs (cat) or 3-4 hrs (dogs) after heparin dose. For additional info on Submission Guidelines, or see Comp Coag web page. Also see Heparin Assay FAQs.</p>							
Heparin (Unfractionated)	39.25	Comparative Coagulation	M-F	same day	0.5 to 1.0 mL separated citrate plasma	plastic or siliconized glass tube in styrofoam box	Refrigerate/ship on cold pack
<p>Anti-Xa activity of unfractionated heparin Ship overnight; specify UFH or LMWH; for additional info on Submission Guidelines, or see Comp Coag web page. Also see Heparin Assay FAQs. Peak and trough values: samples for determination of Peak anti-Xa activity should be collected at 3 to 4 hours post treatment (dogs) or 2 to 3 hours post treatment (cats). Samples for Trough levels should be collected just before the next scheduled dose.</p>							
Histopathology (Each additional site)	20.50 in addition to base surgical biopsy (HISTO) charge	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 surgical biopsy sites that are part of a standard biopsy. 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>							

Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Histopathology (Surgical Biopsy 1-2 Sites) 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. This 1-2 site fee is intended for surgical biopsies and is the baseline charge for the special biopsy categories below. Use Histology Submission Form. Surcharges for these will be added to the surgical biopsy fee based on the following criteria: Dermatology Biopsies (1-5 sites): Dermatohistopathology Submission Form Includes up to 5 sites or 5 skin punch biopsies processed for dermatohistopathology evaluation. Please identify multiple biopsies that need to be interpreted separately from each other (ex. submit in separate jars or mark with sutures in the same jar). Test codes HISTO + HISTODRM.(\$110) Liver Consult: Use Liver Submission Form via the Liver Portal. High quality specialized hepatopathology interpretation of liver biopsy specimens by Dr. Sean McDonough, a board certified veterinary pathologist with high level expertise in liver pathology. Test codes HISTO + AHISLP + LVRSM (\$230.50) Whole Organs, Limbs, Special/Augmented Biopsies: Use Histopathology Submission Form. 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. This may include a gross evaluation of fresh tissues. Test codes HISTO + HISTOSPC (\$136.00) Field Necropsy Submissions: Use Histopathology Submission Form. Veterinarian performed necropsies. For animals necropsied 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. May qualify for New York State Contract Pricing.(\$136.00)	80.00 for 1-2 sites; Additional charges apply for submissions including more than 2 sites, specialty services such as dermatology or hepatopathology consults (liver consults), complex submissions, or field necropsies as described below. STAT not available on all submissions. Please contact in advance for availability at 607-253-3319 or pathologyservice@cornell.edu.	Anatomic Pathology	M-F	4-10 days	0.5 to 1.0 cm thick section of tissue fixed in 10% neutralized formalin, 10:1 formalin to tissue ratio.	Wide-mouth, leakproof, unbreakable jar; NOT GLASS	room temperature; protect from freezing
Histopathology, Slide Review (1-2 slides) 1-2 slides Contact Path Dept (607-253-3312)	55.00	Anatomic Pathology	M-F	3 days	1 to 2 Slides	Slide mailer	
Histopathology, Slide Review (3+ slides) 3 or more slides Contact Path Dept (607-253-3312)		Anatomic Pathology	M-F	3 days	3 or more slides	Slide mailer	
IHC w/o Histopathology	35.00	Anatomic Pathology	M-F	2-7 days	formalin fixed tissue (paraffin-embedded), or tissue mounted on glass slides		room temperature; protect from freezing
Immunoglobulin G, Bovine - TIA Quantitative IgG measurement, e.g. for failure of transfer of passive immunity For test interpretation, refer to eclinpath.com	30.00	Clinical Pathology	M-Sa	1-2 days	1 mL separated serum	Plain glass or plastic tube	Refrigerate
Immunoglobulin G, Colostrum IgG by turbidometric immunoassay (TIA)	36.00	Clinical Pathology	M-Sa	1-2 days	1 ml	Red top (non-anticoagulant) tube	Refrigerate

Last Updated: 11/13/2018 * 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 VSS-WEB-077-V01 pricing available. For information please refer to <https://ahdc.vet.cornell.edu/billing/contract.cfm>
 ** "Lag Time" is counted in business days, unless otherwise specified, from the day the specimen arrives until the day the test result is reported, assuming there are no complications with testing.

Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Infectious Bov Rhinotrach (IBR) kinetic ELISA The IBR Kinetic ELISA detects antibodies to IBR Single samples only by request (contract)	11.00	Serology	2-3x/wk	2 days	2 mL serum, paired	red top blood collection tube	Refrigerate
Infectious Bovine Rhinotrach (IBR) (BHV-1) Virus Isolation Bovine Herpesvirus -1 (IBR) Virus Isolation Swabs in bacterial transport medium are not appropriate for virus isolation or PCR testing. If viral transport media is unavailable, put swabs in a red top tube with a few drops of saline.	70.00 /animal	Virology	M-F	21-30 days, s	1) Nasal swab, pharyngeal swab; 2) Tracheal wash, broncho-alveolar lavage; 3) Lung tissue; 4) Fetal tissues (Lung, liver, kidney, spleen, adrenal; 5) Placenta	1) Swabs in Viral Transport Medium; 2) Leakproof container; 3, 4, 5) Sealable plastic bag or container	Ship in insulated container with ice pack
Infectious Bovine Rhinotrach (IBR) (BHV-1) Virus SN OIE Serum neutralization Testing to meet Office of Int'l Epizootics (OIE) standards. Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze.	14.50	Virology	Th	7-10 days	1 ml serum	red top blood collection tube	It is recommended to ship samples with an ice pack.
Influenza Virus Matrix PCR This PCR assay will detect most if not all influenza virus types currently circulating in most species, including 2009 H1N1 and the 2015 Canine H3N8. This assay does not specifically identify the influenza H and N types. That testing can potentially be requested on positive samples if unusual outbreaks or cross-species transmission is suspected. Submit swabs in sterile, sealed vials with several drops of saline added, to prevent desiccation. Bacterial transport media are not appropriate for PCR assays. If culture is desired, submit a separate swab in an acceptable bacterial transport media. Cotton, plastic, wood-handled, and Dacron and other synthetic swabs are all acceptable for PCR-based assays. Calcium alginate swabs should be avoided. 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	2-3 days	1) tracheal, choanal, oropharyngeal, cloacal (duck) 2) tissue (min. 5 g); 3) allantoic fluid (min. 2 mL)	unbreakable, leak-proof container	Refrigerate
Insulin: Bovine/Rodent For Bovine, rats and mice	19.00	Endocrinology	Tuesday	1 - 7 days	250 uL serum or EDTA plasma	plastic or glass tube	Refrigerate. Ship overnight in insulated container with freezer packs.
Investigational sequencing Pathogen identification, characterization, and/or discovery by unbiased or semi-targeted NGS will be attempted.	100.00 Contact lab	Molecular Diagnostics	varies	~ 1 month	CSF, brain tissue (fresh or frozen), or EDTA blood preferred	sterile sealed container	Refrigerate
Ionized Calcium Test run on serum only Test reference ranges can be found at Clinpath Reference Intervals. For test interpretation, refer to eclinpath.com	18.50	Clinical Pathology	M-Sa	1-2 days	2 mL separated serum ONLY	non-anticoagulant tube (plain red top)	Refrigerate and ship overnight in insulated container with freezer packs. If more than a 48 hour delay, freeze serum and ship on dry ice.
Ionophore Quantitation Quantitation of monensin and/or lasalocid. Liquid Chromatography/Mass Spectrometry (LC/MS)	165.50 per hour	Toxicology	As needed	1-3 days	Feed (gallon size ziplock bag or equivalent)	Clean ziplock bag or other unbreakable container	Refrigerate w/ cool pack
Iron See Test Info and Protocols for more information Test reference ranges can be found at Clinpath Reference Intervals. For test interpretation, refer to eclinpath.com	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 See Test Info and Protocols for more information. Test reference ranges can be found at Clinpath Reference Intervals. For test interpretation, refer to eclinpath.com	20.00	Clinical Pathology	M-Sa	1-2 days	2 mL separated serum or heparinized plasma	plain glass or plastic tube	Refrigerate

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VSS-WEB-077-V01 ** "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
Johne's (MAP) Commercial ELISA	5.00	Serology	M-F	3-4 Days	for Bovine: 2mL serum or plasma; for Caprine: 2mL serum	red top blood collection tube	Refrigerate
<p>The Johnes Commercial ELISA detects antibodies to Mycobacterium avium subsp. paratuberculosis (MAP). This test is validated and USDA licensed for the detection of MAP specific antibodies in bovine serum or plasma and caprine serum. This test is for use on Bovine serum or plasma and caprine serum. Ovine samples can be tested, but the assay has not been formally validated for use with samples from this species.</p>							
Johne's AGID	12.00 /sample ; \$24 for cervidae (only)	Bacteriology	M-Th	2-4 days	Serum	Red top blood collection tube	Refrigerate
<p>For the detection of antibody to Mycobacterium avium sbsp. paratuberculosis (MAP) in serum by AGID. *May qualify for New York State contract pricing. Specimens will be tested for either the bovine or caprine strain of MAP, as appropriate for their species. The laboratory is no longer able to test samples from sheep with this assay. Animals must be at least 1 year old. In bovines and caprines (include 'exotic' members of the respective family), this test should be requested for clinical suspects only. For surveillance or screening purposes, please request the Johnes Commercial ELISA for cervidae and camelids, this test is used for surveillance in healthy animals and for clinical suspects. As cervidae are often infected with either or both the bovine and caprine strains of MAP, serum will be tested against both caprine and bovine reagents and incur double the cost unless requested otherwise. Indicate any previous testing at the AHDC for accurate test result interpretations.</p>							
Johne's Culture, Bovine	40.25 /sample	Bacteriology	M-W	35+ days	1) 15g fresh feces; 2) Fresh distal ileum, ileocecal junction and associated lymph nodes FILL SAMPLE CONTAINERS NO MORE THAN HALF FULL.	1) Wide mouth screw top container; 2) Separate sealed sterile containers. Unacceptable containers for fecal samples include flip-top milk vials, zip-lock baggies, exam gloves, glass jars, prescription bottles, or containers that are taped closed.	1-2) Refrigerate, DO NOT freeze. Ship promptly after collection in an insulated container with cold packs.
<p>For the culture of Mycobacterium avium sbsp. paratuberculosis from individual clinical suspects. For NYS bovine submissions, our default test is the Johnes Fecal PCR. Requests for Johnes fecal culture will be automatically changed to Johnes Fecal PCR unless a comment is included on the submission form indicating why culture must be performed instead. For Non-NYS bovine submissions, Johnes Fecal PCR is the recommended test choice for fecal detection of Mycobacterium subsp paratuberculosis, due to the long turn-around time for culture. If you request culture it will be provided. For more information, please see Johnes Disease Program: 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.</p>							
Johne's Culture, Pooled	29.50 /sample	Bacteriology	M-W	35+ days	15g fresh feces. Please submit INDIVIDUALLY labeled fecal samples. Samples will be pooled in groups of 3 to 5 upon receipt. Any remaining samples will be tested by individual direct PCR. FILL SAMPLE CONTAINERS NO MORE THAN HALF FULL.	Individual wide mouth screw top containers. Unacceptable containers for fecal samples include flip-top milk vials, zip-lock baggies, exam gloves, glass jars, prescription bottles, or containers that are taped closed.	Refrigerate, DO NOT freeze. Ship promptly after collection in an insulated container with cold packs.
<p>Bovine only. For the culture of Mycobacterium avium sbsp. paratuberculosis in pooled fecal samples. Samples will be pooled upon receipt in the Laboratory. Samples pooled prior to arrival will not be accepted. Clearly indicate any samples for individual culture. Samples from high risk or clinically suspicious animals should not be included in pooled samples. Individual samples in confirmed positive pools will automatically be tested by Johnes Direct PCR and additional fees will accrue. Please see Johnes 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 Culture, Pooled (Non-NY)	47.00 /sample	Bacteriology	M-W	35+ days	15g fresh feces. Please submit INDIVIDUALLY labeled fecal samples. Samples will be pooled in groups of 3 to 5 upon receipt. Any remaining samples will be tested by individual direct PCR. FILL SAMPLE CONTAINERS NO MORE THAN HALF FULL.	Individual wide mouth screw top containers. Unacceptable containers for fecal samples include flip-top milk vials, zip-lock baggies, exam gloves, glass jars, prescription bottles, or containers that are taped closed.	Refrigerate, DO NOT freeze
<p>Bovine only. For the culture of Mycobacterium avium sbsp. paratuberculosis in pooled fecal samples. Samples will be pooled upon receipt in the Laboratory. Samples pooled prior to arrival will not be accepted. Clearly indicate any samples for individual culture. Samples from high risk or clinically suspicious animals should not be included in pooled samples. Individual samples in confirmed positive pools will automatically be tested by Johnes Direct PCR and additional fees will accrue. Please see Johnes 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 Culture, Pooled, NYSCHAP	23.00 /sample	Bacteriology	M-W	35+ days	15g fresh feces. Please submit INDIVIDUALLY labeled fecal samples. Samples will be pooled in groups of 3 to 5 upon receipt. Any remaining samples will be tested by individual direct PCR. FILL SAMPLE CONTAINERS NO MORE THAN HALF FULL.	Individual wide mouth screw top containers. Unacceptable containers for fecal samples include flip-top milk vials, zip-lock baggies, exam gloves, glass jars, prescription bottles, or containers that are taped closed	Refrigerate, DO NOT freeze. Ship promptly after collection in an insulated container with cold packs.
<p>Bovine only. For the culture of Mycobacterium avium sbsp. paratuberculosis in pooled fecal samples. Samples will be pooled upon receipt in the Laboratory. Samples pooled prior to arrival will not be accepted. Clearly indicate any samples for individual culture. Samples from high risk or clinically suspicious animals should not be included in pooled samples. Individual samples in confirmed positive pools will automatically be tested by Johnes Direct PCR and additional fees will accrue. Please see Johnes 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>							

Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
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>This test is for NYS herds only, for the culture of Mycobacterium avium sbsp. paratuberculosis in manure samples from cattle facilities/environment. Complete sets of six samples are required for NYS subsidized testing. 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 Mycobacterium avium sbsp. paratuberculosis 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>This test is for use by NYSCHAP enrolled herds, for the culture of Mycobacterium avium sbsp. paratuberculosis in manure samples collected in the cattle facilities/environment. Complete sets of six samples are required for NYSCHAP testing. 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>							
Johne's Fecal PCR	36.75	Molecular Diagnostics	M-F as needed	7-10 days	15 g feces. FILL SAMPLE CONTAINERS NO MORE THAN HALF FULL.	Fecal collection cup. Unacceptable containers for fecal samples include flip-top milk vials, zip-lock baggies, exam gloves, glass jars, prescription bottles, or containers that are taped closed.	Overnight and refrigerated. Ship promptly after collection in an insulated container with cold packs.
<p>Bovine samples only This assay has been validated using samples from Johne's positive herds. Additional testing in test negative herds or true negative populations will be required to further define specificity. Additional info at Johne's Direct Fecal PCR Fact Sheet for Veterinarians. A \$50/hour fee to cover additional laboratory handling of improperly collected, labelled, or shipped samples may be assessed.</p>							
Johne's Fecal PCR, NY	19.00	Molecular Diagnostics	M-F as needed	7-10 days	15 g feces. FILL SAMPLE CONTAINERS NO MORE THAN HALF FULL.	Fecal collection cup. Unacceptable containers for fecal samples include flip-top milk vials, zip-lock baggies, exam gloves, glass jars, prescription bottles, or containers that are taped closed.	Overnight and refrigerated. Ship promptly after collection in an insulated container with cold packs.
<p>Bovine samples only Identified Clinical Suspects with other testing requested will be accessioned separately and are contract-eligible. Accession fee will apply. Contract will not apply for PCR only submissions. Additional info at Johne's Direct Fecal PCR Fact Sheet for Veterinarians A \$50/hour fee to cover additional laboratory handling of improperly collected, labelled, or shipped samples may be assessed.</p>							
Johne's Fecal PCR, NYSCHAP	14.00	Molecular Diagnostics	M-F as needed	7-10 days	15 g feces. FILL SAMPLE CONTAINERS NO MORE THAN HALF FULL.	Fecal collection cup	Overnight and refrigerated. Ship promptly after collection in an insulated container with cold packs.
<p>Bovine samples only Identified Clinical Suspects with other testing requested will be accessioned separately and are contract-eligible. Accession fee will apply. Contract will not apply for PCR only submissions. Additional info at Johne's Direct Fecal PCR Fact Sheet for Veterinarians A \$50/hour fee to cover additional laboratory handling of improperly collected, labelled, or shipped samples may be assessed.</p>							

Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Knott's Heartworm 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. For information regarding interpretation of test results, please see https://ahdc.vet.cornell.edu/sects/Paras/tests/knotts.cfm	16.50	Parasitology	M-F	1-3 days	1 mL EDTA or heparin whole blood	sterile blood tube	Refrigerate
Large Animal Chemistry Panel Equ and ruminant: Na, K, Cl, Bicarb, Anion Gap, BUN, Creat, Ca, P, Mg, TP, Alb, Glob, A/G ratio, Gluc, SDH, AST, GLDH, GGT, Tot/Dir/Ind Bilirubin, CK, Iron, TIBC, % Saturation Test reference ranges can be found at Clinpath Reference Intervals.	48.00	Clinical Pathology	M-Sa	1-2 days	2 mL separated serum or heparinized plasma	Refrigerate. Ship overnight in insulated container with freezer packs.	Refrigerate
Large Animal Renal Panel Equ and ruminant: Na, K, Cl, Bicarb, Anion gap, Urea, Creat, Alb, Ca, P Test reference ranges can be found at Clinpath Reference Intervals.	28.00	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 overnight in insulated container with freezer packs.
Large Animal, Crossmatch Donor 1	50.00	Clinical Pathology	M-F	Same Day	1) 1 to 3 mL EDTA whole blood AND 2) 2 mL separated serum (from each blood donor AND recipient)	1) lavender top tube AND 2) plastic tube	Refrigerate. Ship overnight with frozen ice packs in insulated container.
Lead, blood Lead, blood Cannot analyze in plasma or serum - Need whole blood. Do not use heparin separator tubes (gel tubes). For avian and exotics, contact Laboratory AHDC laboratory methodology for blood lead is not affected by the issue described in the 3/22/18 alert from BD Life Sciences related to BD vacutainer tubes, and the original alert from the FDA released on 5/17/2107, which can be viewed at https://www.fda.gov/MedicalDevices/Safety/alertsandNotices/ucm558733.htm	35.00 /sample	Toxicology	M-F	2 days	1) EDTA whole blood (min .5 ml); 2) heparin whole blood (min .5 ml)	Heparinized or EDTA tube	1-2) Refrigerate. Ship in insulated container with ice pack.
Lead, liquids/fluids	30.00 /sample	Toxicology	M-F	1-2 days	1) urine; 2) water; 3) milk	1-3) sterile container	1-3) Refrigerate w/ cool pack
Lead, tissue/feed/other (Atomic Absorption Spectroscopy - Graphite Furnace)	45.00	Toxicology	M-F	3 days	1) 2g tissue; 2) 100g feed	1) sterile container; 2) any container	1) Refrigerate; 2) none
Leptospira MAT, 5 standard serovars For the detection of antibodies to <i>Leptospira interrogans</i> serovars Pomona, Hardjo, <i>Icterohemorrhagiae/copenhageni</i> , <i>Grippityphosa</i> , and <i>Canicola</i> 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 <i>Leptospira</i> 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 <i>Leptospira</i> Microagglutination Testing at the AHDC for more information.	16.00 /5 serovars	Bacteriology	M, W, F	2-3 days	2.0 ml serum	Red top blood collection tube	Refrigerate. Ship overnight in an insulated container with ice packs
Leptospira MAT, 7 serovars For the detection of antibodies to <i>Leptospira interrogans</i> serovars Pomona, Hardjo, <i>Icterohemorrhagiae/copenhageni</i> , <i>Grippityphosa</i> , <i>Canicola</i> , <i>Autumnalis</i> and <i>Bratislava</i> by serum microagglutination. This test adds <i>Leptospira interrogans</i> serovars <i>Bratislava</i> and <i>Autumnalis</i> to the <i>Leptospira</i> 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 <i>Leptospira</i> Microagglutination Testing	30.00 /7 serovars	Bacteriology	M, W, F	2-3 days	2.0 ml serum	Red top blood collection tube	Refrigerate. Ship overnight in an insulated container with ice packs
Leptospira real-time PCR This assay targets the <i>lipL32</i> gene encoding the major surface antigen of pathogenic <i>Leptospira</i> species.	36.75 per specimen tested	Molecular Diagnostics	M-F	2-3 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

Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Lipase	24.00 /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.
See Test Info and Protocols for more information. Test reference ranges can be found at Clinpath Reference Intervals. For test interpretation, refer to eclinpath.com							
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
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 neurolisteriosis 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.							
Listeria monocytogenes PCR	36.75	Molecular Diagnostics	M-F as needed	3 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).
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 neurolisteriosis 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.							
Magnesium	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 Test Info and Protocols for more information. Test reference ranges can be found at Clinpath Reference Intervals. For test interpretation, refer to eclinpath.com							
Magnesium, urine	17.00	Clinical Pathology	M-Sa	1-2 days	1 mL urine	plain glass or plastic tube	Refrigerate
Mass Spectrometry Screen	331.00 per sample	Toxicology	As needed	7 - 10 days	Contact Lab to discuss available and appropriate samples and case history. If unable to consult with lab, always collect the following minimum sample set: Live animals- heparinized whole blood, urine, vomitus, and feces. Post-mortem sample collection should include the following fresh samples: Heart blood (clot tube, heparinized tube and EDTA tube), urine, liver, kidney, fat, stomach contents, colon contents, brain and eyeball or aqueous humor. Always collect suspect items such as food, water, paint chips, new products, etc. In addition to fresh tissues and specimens, collection of a comprehensive set of fixed tissues for histopathology is recommended whenever toxicosis is suspected.	Heparinized blood tube; leakproof, individual sterile, clean, pesticide-free containers for all tissue, GI contents. Place suspect feed, water, products in individual leakproof containers (e.g. zipperlock bags)	Freeze tissue, stomach/rumen contents, plasma, urine, serum, food or feed. Refrigerate whole blood or plant material.
General screening for unknown toxins. Special Request Only. Please contact the lab at 607-253-3900 before submission. For additional guidance on Toxicology Submissions https://ahdc.vet.cornell.edu/docs/Toxicology_Submissions_and_Analytica_Screens.pdf							
Mass Spectroscopy Confirmation	165.50 /sample	Toxicology	M-F	5 days	1) 10 mL heparin whole blood; 2) 20 - 50 mL urine; 3) tissue; 4) plant materials; 5) stomach contents	1) Heparinized tube; 2-5) sterile, clean, pesticide-free container	1-2) Refrigerate w/ cool pack; 3-5) freeze tissue
Freezer pack whole blood; SPECIAL REQUEST - PLEASE CONTACT LAB.							
Mercury	55.00	Toxicology	M-F	3 days	1) 2g tissue; 2) 100g feed; 3) 2 mL heparin whole blood	1) sterile container; 2) any container; 3) Heparinized or EDTA tube	1, 3) Refrigerate; 2) none
(Flameless Atomic Absorption) Cannot analyze in plasma or serum - Need whole blood. Do not use heparin separator tubes (gel tubes).							
Microscopic Feed Analysis	40.00 /hr	Toxicology	M-F	3 weeks	100g feed	any container	None

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Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Mineral Panel (Tissue, Feed) Full screen includes Ca, P, Mg, Na, K, Cu, Fe, Mn, Zn, and Mo analyzed by ICP-AES. See Description and Minimum Sample Volume for special note on biopsy or other very small samples.	47.00	Toxicology	1x/wk	3-7 days	1)Tissue; 2) Feed. Do not submit serum or plasma. For biopsy samples and other submissions <0.500 g, only Cu, Fe, Zn, and Mo will be provided due to limitations of small sample size.	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	Red top (non-anticoagulant) tube	Refrigerate. Ship overnight in insulated container with freezer packs.
Mineral/Electrolytes Panel Na, K, Cl, Bicarb, Anion Gap, Ca, P, Mg For additional info on Clin Path panels Test reference ranges can be found at Clinpath Reference Intervals.	21.00	Clinical Pathology	M-Sa	1-2 days	1.5 mL separated serum or heparinized plasma	Red top (non-anticoagulant) or green top (heparin) tube	Refrigerate. Ship overnight in insulated container with freezer packs.
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	2 mL urine	plain glass or plastic tube	Refrigerate
Mycobacterium avium avium PCR Submit swabs in sterile, sealed vials with several drops of saline added, to prevent desiccation. Bacterial transport media are not appropriate for PCR assays. If culture is desired, submit a separate swab in an acceptable bacterial transport media. Cotton, plastic, wood-handled, and Dacron and other synthetic swabs are all acceptable for PCR-based assays. Calcium alginate swabs should be avoided.	36.75	Molecular Diagnostics	M-F as needed	2-3 days	1) culture (solid or liquid) or isolate; 2) tissue; 3) swab; 4) feces	unbreakable, leak-proof container	Refrigerate
Mycobacterium avium complex PCR Submit swabs in sterile, sealed vials with several drops of saline added, to prevent desiccation. Bacterial transport media are not appropriate for PCR assays. If culture is desired, submit a separate swab in an acceptable bacterial transport media. Cotton, plastic, wood-handled, and Dacron and other synthetic swabs are all acceptable for PCR-based assays. Calcium alginate swabs should be avoided.	36.75	Molecular Diagnostics	M-F as needed	2-3 days	1) culture (solid or liquid) or isolate; 2) tissue (min. 5 g); 3) swab	unbreakable, leak-proof container	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	2-3 days	Prior arrangement	follow lab instructions	Refrigerate
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
Necropsy (0.25 - 15lbs) Necropsy submissions with body weights between 0.25lbs and 15lbs. Typically includes cats, dogs, non-contract covered poultry, rabbits, ferrets, most birds, small animal abortions, and non-contract bovine and small ruminant abortions. Necropsy Submission Form Call 607-253-3319 or email pathologyservice@cornell.edu with questions for Necropsy with NYS contract pricing. \$100 Stat fee may be applied for nights, weekends, or holidays. Stat fees will be waived for zoonotic disease suspects or herd health outbreaks. For shipping instructions, please see Shipping NecropsySpecimens. To ship by UPS or FEDEX, package must weigh less than 150 lbs. They require notification prior to scheduled pickups for all packages exceeding 75 lbs.	125.00 in state; \$200 out of state. Additional STAT fee may apply. Contact lab for more information	Anatomic Pathology	M-F	2-12 days	carcass		

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Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Necropsy After Hours Fee <small>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.</small>	50.00	Anatomic Pathology					
Necropsy, 101 to 500 lbs <small>Includes large dogs, calves, deer, adult sheep and goats. See comment for New York State animals. \$100 Stat fee will be charged for nights, weekends or holidays. Stat fees will be waived for zoonotic disease suspects or herd health outbreaks. Please call 607-253-3319 to arrange. For shipping instructions, please see Shipping NecropsySpecimens. To ship by UPS or FEDEX, package must weigh less than 150 lbs. They require notification prior to scheduled pickups for all packages exceeding 75 lbs.</small>	360.00 in state; \$500 out of state. Additional STAT fee may apply. Contact lab for more information	Anatomic Pathology	M-F	2-12 days	carcass		
Necropsy, greater than 500 lbs <small>Includes large hoofstock, large carnivores \$100 Stat fee will be charged for nights, weekends or holidays. Stat fees will be waived for zoonotic disease suspects or herd health outbreaks. Please call 607-253-3319 to arrange. For shipping instructions, please see Shipping NecropsySpecimens. To ship by UPS or FEDEX, package must weigh less than 150 lbs. They require notification prior to scheduled pickups for all packages exceeding 75 lbs.</small>	410.00 in state; \$550 out of state. Additional STAT fee may apply. Contact lab for more information	Anatomic Pathology	M-F	2-12 days	carcass		
Nematode Larval Culture <small>Requires 14-day lag time from submission; Fecal Quantitative test done first to determine need</small>	55.00	Parasitology	M-F	14+ days	15g fresh fecal sample	wide mouth leak-proof	Do not refrigerate sample
Neospora IFA <small>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 PandaPlease contact lab with any questions regarding appropriate species.</small>	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 4) Aqueous humor*	1) sterile leak-proof container; 2-4) red top blood collection tube (no gel separator tubes, please; aspirate aqueous humor from eyes and transfer to a blood collection tube or transport tube, please)	1-4) 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) <small>NEFA Test reference ranges can be found at Clinpath Reference Intervals. For test interpretation, refer to eclinpath.com</small>	13.00	Clinical Pathology	M-Sa	1-2 days	1 mL separated serum or EDTA plasma	Red top (non-anticoagulant) or purple top (EDTA) tube	Refrigerate. Ship overnight in insulated container with freezer packs.
Occult Blood <small>(Coprology) Do not allow coolant to come in contact with specimen; ship Overnight</small>	16.00	Clinical Pathology	M-Sa	1-3 days	feces	sterile container	Refrigerate
Osmolality <small>Do not allow coolant to come in contact with specimen</small>	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	Red top (non-anticoagulant) or green top (heparin) tube	Refrigerate

Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Packed Cell Volume Directly measured value obtained from centrifuging blood in a microhematocrit tube. Do not allow coolant to come in contact with specimen; ship Overnight. Test reference ranges can be found at Clinpath Reference Intervals. For test interpretation, refer to eclinpath.com	7.00	Clinical Pathology	M-Sa	1-2 days	EDTA blood (> 1/2 full)	lavender top tube	Refrigerate
Papular Stomatitis Virus PCR The Parapoxvirus PCR detects parapoxviruses from multiple species. For cattle the virus species would be predominantly papular stomatitis virus. Upon special request and an additional fee, sequence analysis can be done to confirm species identity.	36.75	Virology	As needed	2-3 days	swab of ulcerated area; skin biopsy; "scabs"	non-breakable container	Refrigerate. Ship in insulated container with ice pack
Parapox virus PCR The Parapoxvirus PCR detects parapoxviruses from multiple species. For samples originating from ovines, the virus of concern is contagious ecthyma (CE) virus or ORF. For cattle the virus species would be predominantly papular stomatitis virus. Upon special request and an additional fee, sequence analysis can be done to confirm species identity.		Virology	As needed	2-3 days	swab of ulcerated area; skin biopsy;"scabs"	non-breakable container	Refrigerate. Ship in insulated container with ice pack.
Parasite Identification 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.	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
Pericardial Fluid Cytology 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 test interpretation, refer to eclinpath.com. For additional information see Cytology Testing	50.00	Clinical Pathology	M - F	1-2 days from 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.
Peritoneal Fluid Cytology 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 test interpretation, refer to eclinpath.com. For additional information see Cytology Testing	50.00	Clinical Pathology	M - F	1-2 days from 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
Phenobarbital Phenobarbital is used for treatment for forms of epilepsy. This test measures the amount of phenobarbital in the sample	33.00	Clinical Pathology	M, W, F	1-2 days	1 mL separated serum or plasma	Red top (non-anticoagulant), purple top (EDTA), or green top (heparin) tube	Refrigerate, ship on ice packs
Phosphate (Phosphorus) For test interpretation, refer to eclinpath.com. Test reference ranges can be found at Clinpath Reference Intervals. See Test Info and Protocols 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 overnight in insulated container with freezer packs.
Phosphate (Phosphorus), urine	16.50	Clinical Pathology	M-Sa	1-2 days	1 mL urine	plain glass or plastic tube	Refrigerate. Ship overnight in insulated container with freezer packs.

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Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Platelet Aggregation Combination of individual tests Special arrangement - contact laboratory to schedule testing	97.00	Comparative Coagulation	---	---	requires special arrangement with lab		
Platelet Function Combination of individual tests Special arrangement - contact laboratory to schedule testing	52.00	Comparative Coagulation		2-3 days	requires referral appointment		
Pleural Fluid Cytology 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	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.
Potassium See Test Info and Protocols 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	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 Includes Na, K, Cl, Bicarb, Anion gap, Creat, Ca, Glucose, SDH Test reference ranges can be found at Clinpath Reference Intervals.for additional info on Chemistry Panel Information	30.00 /sample	Clinical Pathology	M-Sa	1-2 days	2 mL separated serum or heparinized plasma	Red top (non-anticoagulant) or green top (heparin) tube	Refrigerate. Ship overnight in insulated container with freezer packs.
Prekallikrein Screen Ship Overnight; requires aPTT on same sample; For additional info on Submission Guidelines, or see Comp Coag web page	14.50	Comparative Coagulation	M-F	same day	citrate plasma	plastic or siliconized glass tube in styrofoam box	Refrigerate/ship on cold pack
Progesterone baseline Dogs and llamas tested daily M-F; other species, M, W, F. For more information, see Endocrinology Testing and Protocols	14.50	Endocrinology	see comment	1-3 days	1 - 1.5 mL serum; separated within 2 hrs after blood collection; avoid SST tubes	plastic or glass tube	Refrigerate
Progesterone baseline - RIA - Bovine Bovine only	14.50	Endocrinology	M, W, F	1-3 days	200 uL serum or plasma	Red top or purple top blood collection tube	Refrigerate. Ship in insulated container with ice pack.
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
Pseudocowpox Virus PCR The Parapoxvirus PCR detects parapoxviruses from multiple species. For cattle the virus species would be predominantly papular stomatitis virus. Upon special request and an additional fee, sequence analysis can be done to confirm species identity.	36.75	Virology	As needed	2-3 days	swab of ulcerated area; skin biopsy;"scabs"	non-breakable container	Refrigerate. Ship in insulated container with ice pack.

Animal Health Diagnostic Center Test and Fee Schedule

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RBE - Brain Extraction	51.00	Anatomic Pathology	M-Sa	24 hrs, follow head or whole body		leak-proof container	Refrigerate, do not freeze
<p>This procedure is intended for removal of the brain from the skull for further 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.</p>							
Red Blood Cell (RBC) Count, Total	7.00	Clinical Pathology	M-Sa	1-2 days	EDTA blood (> 1/2 full)	lavender top tube	Refrigerate
<p>Do not allow coolant to come in contact with specimen; Ship Overnight. For test interpretation, refer to eclinpath.com Test reference ranges can be found at Clinpath Reference Intervals.</p>							
Red Blood Cell (RBC), Parasites	12.00	Clinical Pathology	M-Sa	1-2 days	EDTA blood (tube >1/2 full) AND 2 unstained, unfixed, air-dried blood smears	1) Purple top (EDTA) tube, 2) Ship slides in a plastic or cardboard slide holder to prevent from breaking in transit.	Refrigerate
<p>Blood smear evaluation for parasites. This test is performed using Wright's (Giemsa) Stain. Do not allow coolant to come in contact with specimen; ship Overnight</p>							
Ref: Aldosterone	54.00 (+ 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)
<p>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.</p>							
Ref: Anaplasmosis CF	20.50 (+ referral fee; see comment)	Referral	Thurs.	1 - 7 days	2 mL Serum	Red top blood collection tube or screw top vial (preferred)	Refrigerate. Ship for next day delivery in insulated container with freezer pack(s).
<p>Complement Fixation assay for detecting antibodies against Anaplasma marginale in bovine serum samples. This test is available for Bovidae and for EXPORT purposes ONLY. Send separated serum via overnight courier. Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab. This assay is started at the referral lab on Thursdays only. If sample arrives in their lab for testing on Thursday morning, the test is resulted by Friday afternoon. Allow for shipping from AHDC to referral lab.</p>							
Ref: Anaplasmosis Marginale PCR (Bovine)	48.50 (+ referral fee; see comment)	Referral	Tuesday and Friday	3-5 business	2ml EDTA Whole Blood or 2 inch section of Spleen or Liver	EDTA Tube for blood, sterile collection container for tissue	Refrigerate. Ship in insulated container with ice pack.
<p>This test detects the DNA of Anaplasma marginale, the agent of bovine Anaplasmosis. This test is not designed to detect other Anaplasma Species. This test can be performed on Bovine samples only. Send via overnight courier. Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab.</p>							
Ref: Aspergillus Panel	102.00	Referral	M - F		0.5 ml heparinized plasma	Green top blood collection tube	Refrigerate, ship sample over night in insulated container with freezer packs.
<p>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</p>							
Ref: Babesia Gibsoni Giemsa Smr slides, Exp	19.00 (+ referral fee; see comment)	Referral	Monday-Friday	2 days	1-2 Unstained, air-dried blood smear slides made from EDTA Whole Blood	slide mailer	Hold at room temperature. Ship at room temperature. Protect from cold temperatures with insulation.
<p>Evaluation of blood smears for hemoparasites/ hemotropic bacteria. Also known as Hemoparasite exam – Wright Giemsa Stain 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.</p>							

Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Ref: Babesia PCR 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.	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.
Ref: Bartonella PCR 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.	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)
Ref: Botulism 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 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 for more information.	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)
Ref: Brucella abortus/suis Fluorescent Polarization Assay This is an antibody detection assay that is used primarily for regulatory diagnostic investigations or for export purposes. It detects antibodies against Brucella abortus or Brucella suis Test can be performed on large animals. Send via overnight courier Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab.	33.60	Referral	Mon, Thurs	5-7 days	2mL Serum	Red top blood collection tube.	Refrigerate; ship via overnight delivery in insulated container with freezer packs.
Ref: Cholinesterase(brain) This assay tests for enzyme activity in a brain sample. Any factor that interferes with enzyme activity will affect the outcome of the results. Specimen should be as fresh as possible Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab	60.00 (+ referral fee; see comment)	Referral	M-F	3-5 days	Brain Tissue/Retina. Split brain into two equal halves sagittally to get a representative hemisphere. Retina-whole eye.	Plastic bag	Keep refrigerated at all times. Ship overnight with ice pack.
Ref: Cyclosporine Test to detect cyclosporin levels. This test can be performed on Bovine, Canine, Equine, Feline, Ferrets, Fruit Bats, Ovine, Porcine, Primate samples only. Send via overnight courier. Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab.	66.00 (+ referral fee; see comment)	Referral	W, F	3-5 business	1 mL EDTA whole blood	Lavender top blood collection tube	Refrigerate; DO NOT FREEZE. Ship for next day delivery in insulated container with freezer pack(s)
Ref: Digoxin Checking Digoxin levels in the blood Send via overnight courier Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab. Do not store in rubber topped tubes as digoxin will bind to the rubber. Fasting is recommended, but not required.	60.00 (+ referral fee; see comment)	Referral	Run when received	2-4 business	1 mL serum	red top blood collection tube; GLASS vial	Refrigerate. Ship in insulated container with ice pack.

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Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Ref: Electron Microscopy ?Please provide history? Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab	60.00 (+ referral fee; see comment)	Referral	Sample set day it is received	4-5 days	Fresh tissue, Fixed tissue, FFPE Block, Feces		Ice pack, Do Not Freeze
Ref: Equine encephalomyelitis PRNT Panel (EEE,WEE,VEE) This is a virus plaque reduction neutralization test for Eastern (EEE), Western (WEE) and Venezuelan (VEE) equine encephalitis viruses. This test detects antibodies produced either by natural exposure to the viruses or vaccination. These tests are currently only available as this panel. None of these tests can be ordered individually. This test is used for acute and convalescent serology on any species. It is also used for vaccinal titers on equines. If testing for EEE on clinical suspects equines, the EEE IgM Elisa is the recommended test. 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. Referral Lab needs sample on Monday for Tuesday test run. Please provide the US state in which the horse is residing and whether the horse has a neurologic condition or is clinically normal on the submission form. The sample will not be forwarded for testing until we have that information.	46.00 (+ referral fees; see comment)	Referral	Tuesday	3 - 5 days	2 ml Serum	Red top blood collection tube	Refrigerate. Ship overnight in insulated container with ice packs
Ref: FISH Fluorescent In-Situ Hybridization Fluorescent probe binds to bacterial ribosomes in tissue. Detected with fluorescent 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 \$190. Additional tissues will be billed at \$50 for each additional tissue. Additional probes will be billed at \$50.00 for each additional probe. 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).	175.00 + in-house referral fee. See comment	Referral	Tues or Wed	PLEASE SEE 5 unstained fixed tissue slides.		Slide Mailer;	Room Temperature
Ref: Freemartin, Bovine Test to determine if female co-twin with a male is fertile Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab	60.50 (+ referral fee; see comment)	Referral	Tu, Th	5-7 days	5 mL EDTA whole blood	Insulated	Ambient
Ref: Insulin Growth Factor-1 Send via overnight courier Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab. Most species can be tested.	79.00 (+ referral fee; see comment)	Referral	Wednesday	4 - 9 business	0.5 mL Serum or Plasma	Red Top or Purple Top, SST	Refrigerate. Ship in insulated container with cold pack
Ref: Kepra/Levetiracetam 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. Six healthy Quarter Horse foals, who were 3 days old or younger, were administered a single 32 mg/kg dose of levetiracetam either intravenously (IV) or intragastrically (IG); the dose of which was extrapolated from pharmacokinetic data reported for adult horses. To determine plasma levetiracetam concentrations blood was taken from all the foals at 0, 5, 10, 15, 20, 35, 45, 60 and 90 minutes and 2, 3, 4, 6, 8, 10, 12, 24, 36 and 48 hours after administration. The levetiracetam and plasma concentrations remained within the proposed therapeutic range (5-45 mg/L) and above the proposed target concentration (35 mg/L) for at least 12 hours for both IV and IG administration and there were no adverse events. Bioavailability for IG administration was excellent, and there was no significant difference in the pharmacokinetic variables between IV and IG administration. For more information: MacDonald, Hart KA, Davis JL, et al. Pharmacokinetics of the anticonvulsant levetiracetam in neonatal foals, Equine Vet J. 2017 Dec 1. https://onlinelibrary.wiley.com/doi/full/10.1111/evj.12790	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
Ref: Leishmania PCR Sample Required is EDTA whole blood. Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab	60.00 (+ referral fee; see comment)	Referral	M-F	5-7 days	2 mL EDTA whole blood	Insulated	Refrigerate or ship on cold pack
Ref: Malignant Catarrhal Fever IPT This is an immunoperoxidase test designed to detect antibodies to the MCF virus. This serology test is indicated for clinical suspects. This test cross reacts with both Alcelaphine-associated and sheep-associated virus antibodies. All antibody positive IPT samples will be tested by the VN, resulting in two charges (IPT and VN). A clinical suspect is expected to be positive on the IPT test and negative on the VN test. Please call the laboratory before sending sample. Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab	37.00 (+ referral fee; see comment)	Referral	Wednesday	5-7 days	2 mL serum	red top tube	Refrigerate. Ship in insulated container with ice packs

Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Ref: MCF PCR PCR test to detect the Herpes viruses recognized to cause Malignant Catarrhal Fever. This PCR assay differentiates between alcelaphine herpesvirus 1 and ovine herpesvirus 2. The sample required from a live animal is EDTA whole blood. Send via overnight courier. Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab.	67.20 (+ referral fee; see comment)	Referral	M-F	7-14 days	EDTA Whole Blood or Tissue	Insulated	Refrigerate (not frozen)
Ref: Mycobacterial Culture (Acid Fast TB) Test for presence of tuberculosis. This test does not speciate non-TB Mycobacterium species. Send via USPO in NVSL mailer. Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab. This test is intended to detect Mycobacterium tuberculosis as a reportable disease.	58.00 (+ referral fee; see comment)	Referral	M-F	30-120 days	Tissue	Mycobacterium box	Ambient
Ref: Mycobacterial PCR PCR for Mycobacterium species. Not for M. bovis or M. tuberculosis suspects. Formalin fixed tissue or paraffin blocks should not be decalcified. Tissue should be in wet formalin less than 10 days. Acid fast bacteria must be present on histopathology to perform PCR testing. Fresh tissue should be tested by requesting Mycobacterium Culture rather than PCR to increase testing sensitivity.	246.00 (+ referral fee; see comment)	Referral	M-F	12-14 Busine:	Fixed tissue containing lesion	Sterile, leakproof, unbreakable container or paraffin block	Room temperature for fixed tissue and paraffin block
Ref: Mycobacterium Culture ID All culture isolates (positive cultures for mycobacterium) will require additional speciation at a fee of \$70.00 to identify the Mycobacteria further. Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab	48.00 (+ referral fee; see comment)	Referral	Mon - Fri	60 - 120 days	Fresh tissue	Sterile, leakproof, unbreakable container	Ship for next day delivery in an insulated container with freezer packs.
Ref: Mycoplasma PCR This test is intended to be used to detect hemotropic Mycoplasma species in the host species susceptible to hemotropic mycoplasma infections, such as Mycoplasma haemofelis, Mycoplasma haemocanis, Mycoplasma haemolamae, Mycoplasma wenyonii, Mycoplasma ovis, etc. Many of these bacteria have been renamed as Mycoplasma from previous genus designations such as Haemobartonella or Eperythrozoon. 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	47.00	Referral	Wednesday	2 days; testec	EDTA Whole Blood, 2-3 ml	Purple Top Blood tube	Refrigerate. Ship in insulated container with freezer pack for next day delivery.
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.	61.00 (+ referral fee; see comment)	Referral	M-F	2-6 Business	1 mL serum only	Red top blood collection tubetube	Refrigerate. Ship for next day delivery in insulated container with freezer pack(s)
Ref: Piroplasmosis CF This is a complement fixation assay for the detection of antibodies against the agents listed here: Bovine: panel includes: Babesia bovis and B. bigemina Equine: panel includes: Babesia caballi and Babesia (Theileria) equi This test can be performed on Bovine and Equine samples only. Send via overnight courier. Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab.	43.20 (+ referral fee; see comment)	Referral	M-F	9-12 Busines:	2 mL serum	Red top blood tube	Refrigerate. Ship in insulated container with ice pack
Ref: Piroplasmosis IFA Same as Piro CF Send via overnight courier/Done on equine and bovine. Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab	36.00 (+ referral fee; see comment)	Referral	M-F	~5-7 days	2 mL serum	Insulated	Refrigerate
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

Animal Health Diagnostic Center Test and Fee Schedule

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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.	85.00 (+ 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: Tritrichomonas foetus PCR Please see male and female sample collection instructions for Tritrichomonas sampling and instructions for using Inpouch mediasystem. Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab	58.00 (+ referral fee; see comment)	Referral	Tu, Th	3-5 days	bovine - Tritrichomonas transport media (e.g. InPouch) inoculated with preputial (male) or cervical (female) sample cats - 1-2 grams feces	InPouch media system - bovine samples unbreakable, leakproof tube or cup-feline samples	Room temperature, insulate from temperature extremes
Ref: Vitamin D Profile Assay for 25- Hydroxyvitamin D This test can be performed on most species. Send via overnight courier. Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab.	82.00 (+ 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.	60.00 (+ 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.	42.00 (+ referral fee; see comment)	Referral	M-F	4-6 business	2 mL serum	Red top blood collection tube	Refrigerate. Ship for next day delivery in insulated container with freezer pack(s)
Ref: Q: Antibiotic Residue Antibiotic Residue Test by DairyOne Referral test fee is set by the referring lab and may change without notice; also, a \$10.50 handling fee is added for each accession sent.	3.00 (+ referral fee; see comment)	Quality Milk Production Services	2 days per week	2 days	milk	clean, sterile container	Do Not Freeze

Last Updated: 11/13/2018 * 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>
VSS-WEB-077-V01 ** "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
Ref-Q: Lab Pasteurized Count Non NYS Price: \$6.00 Referral test fee is set by the referring lab and may change without notice; also, a \$10.50 handling fee is added for each accession sent.	5.25 NY state; (+ referral fee; see comment)	Quality Milk Production Services	M-F	24-48 hrs	2 oz Milk	Clean, Sealed Container	Refrigerate, Ship on ice, Do NOT freeze
Ref-Q: Milk Urea Nitrogen (MUN) MUN test done by DairyOne Referral test fee is set by the referring lab and may change without notice; also, a \$10.50 handling fee is added for each accession sent.	1.50 (+ referral fee; see comment)	Quality Milk Production Services	2 days per week	2 days	milk	clean, sterile container	Do Not Freeze
Ref-Q: Pre-Incubation Count Pre-Incubation Count (PIC) Non NYS Price: \$6.00 Referral test fee is set by the referring lab and may change without notice; also, a \$10.50 handling fee is added for each accession sent.	5.25 NY state, \$6.00 out of state (+ referral fee; see comment)	Quality Milk Production Services	M=F	24-48 hrs	2 oz Milk	Clean, Sealed Container	Refrigerate, Ship on ice, Do NOT freeze
Ref-Q: Somatic Cell Count preservative as needed Referral test fee is set by the referring lab and may change without notice; also, a \$10.50 handling fee is added for each accession sent.	1.00 (+ referral fee; see comment)	Quality Milk Production Services	M-F	24 hrs	> or = 60 ml Milk	Clean, Sealed Container	Refrigerate, Ship on ice, Do NOT freeze
Ref-Q: Standard Plate Count Standard Plate Count (SPC) Non NYS Price: \$6.00 Referral test fee is set by the referring lab and may change without notice; also, a \$10.50 handling fee is added for each accession sent.	5.25 NY State fee (+ referral fee; see comment)	Quality Milk Production Services	M-F	24-48 hrs	2 oz Milk	Clean, Sealed Container	Refrigerate, Ship on ice, Do NOT freeze
REF-Q: Total Coliform Count Total Coliform Count (TCC) Non NYS Price: \$6.00	5.25 NY State	Quality Milk Production Services	M-F	24-48 hrs	2 oz Milk	Clean, sealed container	Refrigerate, Ship on ice, Do NOT freeze
Reproductive Bacteriology Cultures, Panel 4 Includes Aerobic, Mycoplasma and Ureaplasma cultures. *May qualify for New York State contract pricing. Antimicrobial susceptibilities are not included in the testing fee and are not applicable to Mycoplasma spp. and Ureaplasma spp. Tests can be ordered separately. Preliminary aerobic culture results will be provided one day after sample processing begins.	94.00 /sample	Bacteriology	M-F	5-7 days	1) Uterine, cervix or vaginal mucus; 2) Semen, urethra or prepuce	1-2) Swabs in Amies transport media WITHOUT charcoal or fluids/tissues in sealed sterile container	1-2) Refrigerate. Ship in insulated container with ice pack.
Respiratory Bacteriology Cultures, Panel 6 Includes Aerobic, Mycoplasma and Ureaplasma cultures. *May qualify for New York State contract pricing. Antimicrobial susceptibilities are not included in the testing fee and are not applicable to Mycoplasma spp. and Ureaplasma spp. Tests can be ordered separately. Preliminary aerobic culture results will be provided one day after sample processing begins.	94.00 /sample	Bacteriology	M-F	5 days	1) Tracheal wash; 2) Lung 3) Aseptically collected swab of tracheal wash or lung	1-2) Swab in Amies transport media (swab) WITHOUT charcoal or fluids/tissues in sealed sterile container	1-2) Refrigerate. Ship in insulated container with ice pack.
Reticulocyte Count Test reference ranges can be found at Clinpath Reference Intervals. For test interpretation, refer to eclinpath.com Do not allow coolant to come in contact with specimen; ship Overnight	10.50	Clinical Pathology	M-Sa	1-2 days	EDTA blood (> 1/2 full)	lavender top tube	Refrigerate
Rotavirus Antigen Detection, Group A Latex agglutination to detect Group A Rotavirus antigen	25.00 /animal	Virology	Varies	3 days	5cc feces	Leakproof container	Freezer Packs

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Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Rotavirus FA-Any Species Fluorescent antibody	25.00	Virology	M - F	2 - 4 days		Sealable plastic bag or container	Ship in insulated container with ice packs.
Ruminant CNS Panel, Bacteriology Includes Aerobic and Listeria cultures. *May qualify for New York State contract pricing. Rabies testing must be done prior to submission. Antimicrobial susceptibilities are not included in the testing fee. Culture preliminary results will be provided one day after sample processing begins.	62.00 /sample	Bacteriology	M-F	5-7 days	1) Brain or cerebellum; 2) Cerebrospinal fluid 3) Aseptically collected Swab of meninges, brain or CSF	1-2) Sealed sterile container 3) Swab in Amies transport medium with or without charcoal or in Anaerobic transport medium	1-2) Refrigerate. Ship in insulated container with ice pack.
Ruminant Liver Panel AST, SDH, GGT, GLDH, NEFA, BHB, Total protein with albumin and globulins, A/G ratio, CK Test reference ranges can be found at Clinpath Reference Intervals.	32.00	Clinical Pathology	M - F	1-2 days	2 mL separated serum	Red top (non-anticoagulant) tube	Refrigerate
Salm Dublin ELISA-Bulk Tank, NYSCHAP Detection of Salmonella Dublin antibodies in bovine herds For NYSCHAP bovine herd testing only. An official NYSCHAP form must accompany samples. Using this alternative test code for NYSCHAP samples allows the results to be incorporated in the NYSCHAP results database. To test bulk tank samples from non-NYSCHAP herds, request standard Salmonella Dublin ELISA (SALD) For more information about Salmonella Dublin in cattle, see Multi-drug Resistant Salmonella Dublin in Cattle.	11.00	Serology	2-4 days/week	3 days	2 mL bulk tank milk; preservative okay	Vial	Refrigerate
Salmonella Culture For the isolation of Salmonella species. *May qualify for New York State contract pricing. Test is also part of the Enteric Panel 1, Enteric Panel 2, and Enteric Panel 3. Antimicrobial susceptibilities are not included in the testing fee. See the Adult Equine Diarrhea Kit for equine submissions.	22.00 /sample	Bacteriology	M-Sa	3-5 days	1) Fresh feces or intestinal contents; 2) Ligated ileum or jejunum; 3) Mesenteric lymph node; 4) other tissues; 5) Water; 6) Swab of 1-4	1) Feces in sealed sterile container or ParaPak; 2-5) Tissues or fluids in separate, sealed, sterile containers 6) Swab in Amies transport media or other suitable bacterial transport medium	1-6) Refrigerate EXCEPT ParaPak (Parapak at room temperature)
Salmonella Dublin ELISA Detection of Salmonella antibodies For more information about Salmonella Dublin in cattle, see Multi-drug Resistant Salmonella Dublin in Cattle. This test can be performed on serum, individual cow milk samples and herd bulk tank or string milk samples. For NYSCHAP herd bulk milk tank testing, please see Salm. Dublin ELISA-Bulk Tank, NYSCHAP. (using the alternate code for NYSCHAP submissions allows the results to be incorporated into the NYSCHAP results database)	11.00 /sample	Serology	2-4 days/week	3-5 days	2 mL Serum, individual milk, bulk milk	red top tube (serum), vial (milk)	Refrigerate
Sand Bedding Particle Size Particle size analysis for sand bedding.	38.00	Quality Milk Production Services	As needed	3 days	Sand bedding	Quart-size ziplock bag	Refrigerate
Selenium, tissue/feed (Selenium Hydride Atomic Absorption)	55.00	Toxicology	M-F	6 days	1) 2g tissue; 2) 100g feed	1) sterile container; 2) any container	1) Refrigerate; 2) none
Selenium, whole blood Atomic Absorption analysis of whole blood Cannot analyze in plasma or serum - Need whole blood. Contact Lab for specifics for avian and very small animals. May also want to consider "Vitamin E Alcohol in Serum" test as well.	28.00 /sample	Toxicology	M-F	3 days	1) 5 mL heparin whole blood; 2) 5 mL EDTA whole blood	1) green top blood collection tube; 2) purple top blood collection tube	1-2) Refrigerate w/ cool pack
Semen Colony Forming Units (CFU) Aerobic culture. Includes quantification of colony-forming units/ml of semen. Please contact Laboratory for submission requirements. Antimicrobial susceptibilities are not included in the testing fee.	33.00 /sample	Bacteriology	M-Th	2-7 days	Semen	1) Semen straws	1) Liquid nitrogen
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

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Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Sodium	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 Test Info and Protocols for more information. Test reference ranges can be found at Clinpath Reference Intervals. For test interpretation, refer to eclinpath.com							
Sodium, urine	17.00	Clinical Pathology	M-Sa	1-2 days	1 mL urine	Red top (non-anticoagulant) 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	Red top (non-anticoagulant) or green top (heparin) tube	Refrigerate. Ship overnight in insulated container with freezer packs.
Test reference ranges can be found at Clinpath Reference Intervals. For test interpretation, refer to eclinpath.com							
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		
Stained Histology Slides	10.25	Anatomic Pathology	M-F	5 business days	Paraffin embedded tissue block		Room temperature
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.							
Strychnine, liquids/fluids	55.25 /sample	Toxicology	M-F	3 days	1) 10 - 20 mL heparin whole blood; 2) 10 - 20 mL urine	1) Heparinized tube, no gel clot; 2) sterile leak-proof container	1-2) Refrigerate w/ cool pack
Strychnine, solids	90.00 /sample	Toxicology	M-F	3 days	1) 50g liver; 2) 50g stomach contents or vomitus	1-2) sterile container	1-2) Refrigerate w/ cool pack
Sulfur	40.00	Toxicology	M-F	3 days	1) 2g tissue; 2) 100g feed	1) sterile container; 2) any container	1) Refrigerate; 2) none
Synovial Fluid Cytology	55.00	Clinical Pathology	M - F	1-2 days	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 purple top tube. Ship overnight in insulated container with freezer packs. Keep slides at room temperature; protect from chilling/coolant by insulating separately during shipment.
Report includes - Specimen type and site (provided by submitter), Volume, Color, Turbidity, 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 test interpretation, refer to eclinpath.com. For additional information see Cytology Testing							
T4 (Thyroxine) - Immulite	15.00	Endocrinology	M-F	1-3 days	1 mL serum or heparinized plasma	plastic or glass tube	Refrigerate. Ship in insulated container with ice pack.
For more information, see Appendix C							
T4T3 Immulite baseline	27.00	Endocrinology	M-F	1-3 days	serum or heparinized plasma	red top blood tube	Refrigerate

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Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Testosterone baseline For more information, see Appendix C	19.00	Endocrinology	Monday	1-8 days	1 mL serum	plastic or glass tube	Refrigerate
Testosterone Post HCG/GnRH	13.00	Endocrinology	Monday	1-7 days	250 uL serum or plasma	plastic or glass	
Testosterone: HCG/GnRH Response	19.00	Endocrinology	Monday	1-7 days	250 uL serum or plasma	plastic or glass	
Thrombin Clotting Time (TCT) Ship Overnight: for additional info on Submission Guidelines, or see Comp Coag web page	14.50	Comparative Coagulation	M-F	same day	1 mL separated citrate plasma	plastic or siliconized glass tube in styrofoam box	Refrigerate/ship on cold pack
Thrombin-antithrombin Complex Research and batch testing only. Testing not done on rabbits. Per test fee requires submission of 15 or more samples for batch analysis. Ship Overnight. For additional info on Submission Guidelines, or see Comp Coag web page:	52.50	Comparative Coagulation	1x/month	up to 1 month	citrate plasma	plastic tube in styrofoam box	dry ice
Thyroid Panel: FT4D, T4 T3 Immulite This panel of tests was combined to provide Free T4 by dialysis, and T4 and T3 by immulite for equines, bovines, camelids. It can be used for felines. This thyroid panel is designed for use in horses, cows, camelids. It can also be used for cats.	57.00	Endocrinology	M, Th	1-5 days	2 mL serum	plastic or glass tube	Refrigerate. Ship in insulated container with ice pack
Total Organic Matter Total organic matter testing of sand bedding	12.00	Quality Milk Production Services	As needed	3 days	Sand bedding	Quart-size ziplock bag	Refrigerate
Total Protein Panel Total Protein (TP), Albumin, Globulin For test interpretation, refer to eclinpath.com, Test reference ranges can be found at Clinpath Reference Intervals.	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 overnight in insulated container with freezer packs.
Total Protein Plasma (by refractometer) Estimate of plasma protein (including fibrinogen) in EDTA plasma. Measurement of the refractive index of a sample relative to the refractive index of water. Also known as "total solids," as it is affected by increases in solids other than protein including glucose, urea, sodium, chloride, and lipoproteins (chylomicrons and VLDL). Lipemia and hemolysis, but not icterus interfere with the test result. Do not allow coolant to come in contact with specimen; ship Overnight For test interpretation, refer to eclinpath.com Test reference ranges can be found at Clinpath Reference Intervals.	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 See Test Info and Protocols for more information. Test reference ranges can be found at Clinpath Reference Intervals. For test interpretation, refer to eclinpath.com	13.00	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 overnight in insulated container with freezer packs.
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. Ship overnight in insulated container with freezer packs.
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)

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Animal Health Diagnostic Center Test and Fee Schedule

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Tracheal Wash Cytology	46.00	Clinical Pathology	M - F	1-2 days	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
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							
Transition Cow Energy Panel	22.00	Clinical Pathology	M-Sa	1-2 days	1 mL separated serum or EDTA plasma	Red top (non-anticoagulant) or purple top (EDTA) tube	Refrigerate. Ship overnight in insulated container with freezer packs.
Includes BHB and NEFA Test reference ranges can be found at Clinpath Reference Intervals. For test interpretation, refer to eclinpath.com							
Trichinella Tissue Examination Acid Pepsin digest	27.50	Parasitology	M-F	7 days	muscle tissue	wide mouth leak-proof	Refrigerate
Trichomonas Culture	13.50	Parasitology	M-F	5-7 days	Inoculated InPouch	InPouch	Room Temperature
InPouch culture of preputial wash from bulls to detect organism Referred to Colorado State University for confirmation of suspects.							
Triglycerides	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
See Test Info and Protocols for more information Test reference ranges can be found at Clinpath Reference Intervals. For test interpretation, refer to eclinpath.com							
Unstained Histology Slides Prepared	5.25	Anatomic Pathology	M-F	5 business days	Paraffin embedded tissue block		Room temperature
Slides or PCR tubes prepared from (FFPE) blocks. Unstained slides or PCR tubes containing 2-3 (10µM) 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.							
Urea Nitrogen	11.00	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.
Test for blood urea nitrogen in serum, plasma or other fluid. See Test Info and Protocols for more information For test interpretation, refer to eclinpath.com Test reference ranges can be found at Clinpath Reference Intervals.							
Urea Nitrogen, urine	16.50	Clinical Pathology	M-Sa	1-2 days	1 mL urine	Red top (non-anticoagulant) tube	Refrigerate. Ship in insulated container with ice pack.
Ureaplasma Culture	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
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.							
Uric Acid, urine	16.50	Clinical Pathology	M-Sa	1-2 days	1 mL urine	Red top (non-anticoagulant) tube	Do NOT refrigerate. Send at room temperature in original container it was collected into.
For test interpretation, refer to eclinpath.com							
Urinalysis, Routine	25.00	Clinical Pathology	M-Sa	1-2 days	10 mL fresh urine	leakproof container	Refrigerate. Ship overnight in insulated container with freezer packs.
Color, turbidity, dipstick (pH, TP, glucose, ketones, bilirubin, blood), specific gravity, sediment exam For test interpretation, refer to eclinpath.com							

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>							
Vesicular Stomatitis Virus (VSV) IND SN	10.00	Virology	M, W, F	2-4 days	1 ml serum	red top blood collection tube	It is recommended to ship samples with an ice pack.
<p>IND strain Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze. Paired serum samples are recommended for optimal diagnostic test interpretation.</p>							
Vesicular Stomatitis Virus (VSV) NJ SN	10.00	Virology	2-4 days		1 ml serum	red top blood collection tube	It is recommended to ship samples with an ice pack.
<p>NJ strain Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze. Paired serum samples are recommended for optimal diagnostic test interpretation.</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>							
Virus Isolation, BVD Semen	60.00 /animal	Virology	Wednesday	21-30 days, s	Frozen semen		Dry ice or liquid Nitrogen
<p>Virus Isolation Swabs in bacterial transport medium are not appropriate for virus isolation or PCR testing.</p>							
Virus Isolation, IBR Semen	33.00 /animal	Virology	Wednesday	21-30 days, s			Dry ice or liquid Nitrogen
<p>Virus Isolation Swabs in bacterial transport medium are not appropriate for virus isolation or PCR testing.</p>							
Virus Isolation, IBR/BVD Semen Panel	93.00 /animal	Virology	Wednesday	21-30 days, s			Dry ice or liquid Nitrogen
<p>Virus Isolation Swabs in bacterial transport medium are not appropriate for virus isolation or PCR testing.</p>							
Virus PCR	36.75	Virology	As needed	2 - 5 days	Contact lab for specific virus test and sample type	leak proof container	Refrigerate
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>							

Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Vitamin E in serum Quantitation of vitamin E (as alpha-tocopherol) by HPLC-FLD We strongly recommend that Vitamin E (serum) and Selenium (heparin or EDTA whole blood) be tested together. Vitamin E testing may be added on to samples already in the lab within 2 days of accessioning, if the original samples were drawn less than one week prior to the add-on request.	30.00 each	Toxicology	Mon, Th	2 - 5 days	Separate serum and remove from clot. Failure to remove serum from clot may lead to inaccurately low vitamin E levels. Protect from light, keep cool, and avoid hemolysis. Severely hemolyzed samples are unsuitable for analysis.	Avoid preservatives such as Citrate or EDTA. No Gel Clot Vacutainer Tubes (SST tubes).	Refrigerate
von Willebrand factor - large animal/exotic von Willebrand factor concentration, ELISA method Test offered for species other than dog and cat. For additional info go to Submission Guidelines, or see Comp Coag web page	48.50	Comparative Coagulation	1x/wk	14 days	1 mL citrate plasma (separated) EDTA plasma is acceptable	plastic or siliconized glass tube in styrofoam box	Cold pack or dry ice
von Willebrand factor Collagen Binding Assay Functional ELISA Ship Overnight; requires vWF:Ag on same sample; for additional info on Submission Guidelines, or see Comp Coag web page	43.00	Comparative Coagulation	bi-weekly	1-2 wks	citrate plasma	plastic or siliconized glass tube in styrofoam box	Refrigerate/ship on cold pack
West Nile Virus (WNV) PCR PCR Swabs in bacterial transport medium are not appropriate for virus isolation or PCR testing. Whole blood is an acceptable sample only for Avian testing, not for Mammals. For more information, refer to WNV Testing Strategy. This service is performed pursuant to an agreement with Roche Molecular Systems.	36.75	Virology	M-F	3-5 days	AVIAN: 1) Brain, heart, kidney, bone marrow; 2) EDTA Whole Blood; 3) Oropharyngeal or Cloacal swab; MAMMAL:4) CSF; 5) Brain or spinal cord. WHOLE BLOOD IS NOT AN ACCEPTABLE SPECIMEN FOR MAMMALS	1,5) Sealable plastic bags or containers; 3) Swabs in Virus transport medium; 2,4) Leakproof container	Freezer Packs
West Nile Virus (WNV) SN serum neutralization Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze. Acute and convalescent serum samples are recommended for optimal diagnostic test interpretation. Currently at the AHDC, this test is used primarily for mammalian species. For more information and titer graph, please see West Nile Virus Serum Neutralization Test Data	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 Automated count of total leukocytes in blood. Mammals only. 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 purple top tube. Ship overnight in insulated container with freezer packs.
White Blood Cell (WBC) Panel Automated WBC count, manual leukocyte differential, WBC morphology. 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 purple top tube. Ship overnight in insulated container with freezer packs. Keep slides at room temperature; protect from chilling/coolant by insulating separately during shipment.
Whole Genome Sequencing of Bacterial Isolates Bacterial isolates will be sequenced and submitted to NCBI SRA according to FDA/PulseNet procedures. Additional analyses may include serotype/pathotype prediction by 7-gene MLST, antimicrobial resistance gene profiling, and source tracking. An additional \$20 bacterial prep fee will be charged for each culture submission (this will not apply to pellet or DNA submissions). Please see VWGS for phage and viral submissions.	150.00	Molecular Diagnostics	Monthly	Variable	Slant or frozen glycerol stock.		Room Temperature

Last Updated: 11/13/2018 * 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 VSS-WEB-077-V01 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
Whole Organs, Limbs, Special/Augmented Biopsies	56.00 in addition to base surgical biopsy (HISTO) charge	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
<p>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. This may include a gross evaluation of fresh tissues. Use Histopathology Submission Form. Contact us at 607-253-3319 or pathologyservice@cornell.edu in advance with any questions concerning this type of submission.</p>							
Yersinia Culture	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)
<p>For the isolation of Yersinia enterocolitica. Antimicrobial susceptibilities are not included in the testing fee.</p>							
Zinc, serum/plasma	30.00 /sample	Toxicology	M-F	2 days	1) Serum; 2) Plasma	Royal blue-top (trace mineral) tube strongly recommended. Red-top or other tubes may contain zinc and contaminate sample. No gel clot tubes.	1-2) Refrigerate. Ship in insulated container with ice pack.
<p>Quantitation of zinc levels. To discuss testing in small avians and exotics when sample size is limited, please contact Lab. Royal blue-top (trace mineral) tube strongly recommended.</p>							