

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Acid Fast Stain (for bacteria)  For the direct microscopic detection of Mycobacterium species. *May qualify for New York State contract pricing	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
Acidic-Extracted Drugs  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 (Sulfadiazine, Sulfadimethoxine, Sulfadimidine, Sulfafurazole, Sulfamerazine, Sulfamethoxazole, Sulfanilamide, Sulfapyridine, Sulfathiazole), Sulindac, Thiosalicylic Acid, Tolmetin, Zomepirac.	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)
ACTH & Insulin  Equine only. Plasma must be separated from cells and frozen within 4 hours for equine. For more information, see Equine Cushing's Tests or Appendix C.	45.00	Endocrinology	ACTH: M-F, Insulin: M,W,Th	1-4 days	2 mL EDTA plasma ONLY	EDTA tube, plasma must be separated from cells within 4 hrs of collection. Plasma or serum can be used for insulin.	Freeze if not sending same day, ship with ice packs.
ACTH baseline - equine  ACTH baseline, equine only Equine Only. Plasma must be separated from cells within 4 hours. For more information, see Appendix C	28.00	Endocrinology	M-F	1-3 days	1 mL EDTA plasma ONLY	EDTA tube, plasma must be separated from cells within 4 hrs of collection.	EDTA tube, plasma must be separated from cells within 4 hrs of collection.
ACTH Post TRH 10 min  ACTH Post TRH 10 min Equine only, post -TRH sample. For more information, please see PPID/Cushing's Testing	27.50	Endocrinology	M-F	1-3 days	EDTA plasma; 0.5 mL	EDTA tube, plasma must be separated from cells within 4 hrs of collection.	Freeze if not sending same day, ship with ice packs.
ACTH post TRH 30 min  Equine only, 30 minutes post-TRH injection Equine only, post -TRH samples. For more information, please see PPID/Cushing's Testing	22.50	Endocrinology	M-F	1-3 days	EDTA plasma; 0.5 mL each sample	EDTA tube, plasma must be separated from cells within 4 hrs of collection.	Freeze if not sending same day, ship with ice packs.
ACTH Pre TRH Response  Equine only Equine only, this is the baseline ACTH of the TRH response test. For more information, please see PPID/Cushing's Testing	28.00	Endocrinology	M-F	1-3 days	EDTA plasma; 0.5 mL	EDTA tube, plasma must be separated from cells within 4 hrs of collection.	Freeze if not sending same day, ship with ice packs.
ACTH, Insulin and Leptin  Equine only Plasma must be separated from cells and frozen within 4 hours for Equine. For more information, see Equine Cushing's Tests and Equine Metabolic Syndrome Tests.	68.00	Endocrinology	ACTH: M-F; Insulin: M,W,Th; Leptin:M,W	3 - 9 days	1.5 ml EDTA plasma	EDTA blood collection tube, plasma must be separated from cells within 4 hrs of collection. Plasma or serum can be used for insulin and leptin.	Freeze if not sending same day, ship in insulated container with freezer packs.

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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.
<p>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.</p>							
Aerobic Culture & Sensitivity - CUHA	55.00	Bacteriology					
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							
Amikacin - Peak	60.00	Clinical Pathology	Mon - Sat	1-2 days	Serum or lithium plasma. Avoid serum separator tubes as gel may interfere.	Plain glass or plastic tube	Refrigerate. Ship in insulated container with cold packs
<p>This is a particle enhanced-immunoturbidometric assay which uses antibodies against amikacin, which causes aggregation of amikacin-coated particles and a decrease in light transmission. Measurements of peak (C<sub>MAX</sub>) and trough (C<sub>MIN</sub>) concentrations allow the determination of the highest and lowest drug concentrations, respectively. There is no established protocol for the timing of these samples. C<sub>MAX</sub> is typically collected 30 minutes to 1 hour after an intravenous bolus administration, but some authors recommend measurement at 1.5-2hrs post administration. C<sub>MIN</sub> can be measured at 16-19 hours (foals), at 22 hours or just prior to the next dose (closer to 24 hours). Serum from serum separator tubes (containing gel) should be avoided, as the gel may interfere with the testing. After sample collection, the sample should be kept refrigerated and sent to our laboratory with a cold pack. However, if testing will be delayed more than a week past collection, the sample should be frozen and sent on dry ice. Per the manufacturer of the assay, frozen samples are stable for two weeks (-20°C).</p>							
Amikacin - Peak Only	95.00	Clinical Pathology	Mon - Sat	1-2 days	Serum or lithium plasma. Avoid serum separator tubes as gel may interfere.	Plain glass or plastic tube.	Refrigerate. Ship in insulated container with cold packs
<p>This is a particle enhanced-immunoturbidometric assay which uses antibodies against amikacin, which causes aggregation of amikacin-coated particles and a decrease in light transmission. Measurements of peak (C<sub>MAX</sub>) and trough (C<sub>MIN</sub>) concentrations allow the determination of the highest and lowest drug concentrations, respectively. There is no established protocol for the timing of these samples. C<sub>MAX</sub> is typically collected 30 minutes to 1 hour after an intravenous bolus administration, but some authors recommend measurement at 1.5-2hrs post administration. C<sub>MIN</sub> can be measured at 16-19 hours (foals), at 22 hours or just prior to the next dose (closer to 24 hours). Serum from serum separator tubes (containing gel) should be avoided, as the gel may interfere with the testing. After sample collection, the sample should be kept refrigerated and sent to our laboratory with a cold pack. However, if testing will be delayed more than a week past collection, the sample should be frozen and sent on dry ice. Per the manufacturer of the assay, frozen samples are stable for two weeks (-20°C).</p>							
Amikacin - Trough	60.00	Clinical Pathology	Mon - Sat	1-2 days	Serum or lithium plasma. Avoid serum separator tubes as gel may interfere.	Plain glass or plastic tube.	Refrigerate. Ship in insulated container with cold packs
<p>This is a particle enhanced-immunoturbidometric assay which uses antibodies against amikacin, which causes aggregation of amikacin-coated particles and a decrease in light transmission. Measurements of peak (C<sub>MAX</sub>) and trough (C<sub>MIN</sub>) concentrations allow the determination of the highest and lowest drug concentrations, respectively. There is no established protocol for the timing of these samples. In horses, C<sub>MAX</sub> is typically collected 30 minutes to 1 hour after an intravenous bolus administration, but some authors recommend measurement at 1.5-2hrs post administration. C<sub>MIN</sub> can be measured at 16-19 hours (foals), at 22 hours or just prior to the next dose (closer to 24 hours). Serum from serum separator tubes (containing gel) should be avoided, as the gel may interfere with the testing. After sample collection, the sample should be kept refrigerated and sent to our laboratory with a cold pack. However, if testing will be delayed more than a week past collection, the sample should be frozen and sent on dry ice. Per the manufacturer of the assay, frozen samples are stable for two weeks (-20°C).</p>							

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Ammonia	54.00	Clinical Pathology	M-F	1 day	Separated plasma from a purple top (EDTA) or green top (heparin) tube. See <a href="https://ahdc.vet.cornell.edu/Sects/ClinPath/sample/test/ammonia.cfm">https://ahdc.vet.cornell.edu/Sects/ClinPath/sample/test/ammonia.cfm</a> 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 <b>prior to</b> drawing sample. See Eclinpath for more information							
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.
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.							
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
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.							
Anesthetic Screen	331.00 per /sample	Toxicology	M-F as needed	3 business days	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.
Qualitative screening for acepromazine, barbiturates, ketamine, morphine, xylazine, tiletamine/zolazepam. <b>Special request only; contact Lab.</b>							

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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.
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 .							
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.							
Antiplasmin	38.50	Comparative Coagulation	M-F	same day	1 mL separated citrate plasma	plastic or siliconized glass tube in styrofoam box	Refrigerate. Ship in insulated container with ice pack.
Measurement of antiplasmin levels in plasma Ship Overnight. For additional info see Submission Guidelines, or see Comp Coag web page							
Anti-thrombin (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 days	1) whole blood; 2) urine; 3) water	1) Heparinized or EDTA tube; 2) urine in sterile container	1-2) Refrigerate. Ship in insulated container with ice pack.
Quantitative arsenic concentration in fluid samples. Cannot analyze in plasma or serum - Need whole blood. Do not use heparin tubes (gel tubes). Whole blood should not be clotted. Contact Lab for specifics for avian and very small animals							
Arsenic, tissue/feed	35.00 /sample	Toxicology	M-F	5 business days	1) tissue; 2) feed	1) sterile container; 2) any container	1) Refrigerate; 2) none
Quantitative arsenic concentration in tissue or feed.							
Aspartate Aminotransferase (AST)	8.50 /sample (blood, fluid)	Clinical Pathology	M-Sa	1-2 days	1) 1 mL separated serum or heparinized plasma; 2) fluid	Red top (non-anticoagulant) or green top (heparin) tube	Refrigerate. Ship overnight in insulated container with freezer packs.
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							

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Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Aspartate Aminotransferase (AST), urine	16.50	Clinical Pathology	M-Sa	1-2 days	1 mL urine	plain glass or plastic tube	Refrigerate. Ship in insulated container with ice pack.
Bacterial ID	40.00 /isolate	Bacteriology	M-F	2-7 days	Bacterial isolate (pure culture)	Agar slant or plate (sealed) or Amies transport media (swab)	Refrigerate. Ship in insulated container with ice pack.
For the identification of pure bacterial isolates. Charges are assessed PER ISOLATE submitted. Please ensure purity before shipment. Submissions accepted from Laboratories only. Follow all biohazard shipping regulations. Please provide animal history and suspected identification of isolate if possible.							
Baermann Fecal Technique	25.00	Parasitology	M-F	2-3 days	15g fresh fecal sample (~1/2 cup)	Plastic leakproof container	Refrigerate. Ship in insulated container with ice pack.
A modification of the Berlese Apparatus used to retrieve nematode such as lungworm, larvae from feces. The Baermann Technique is not recommended as a primary diagnostic technique for evaluation of parasites in feces. It is not useful for those nematode larvae that do not leave the feces or other biological material, or for detection of parasite eggs or cysts that may be in the fecal sample. Some lungworm larvae are retrieved using this technique, but some larvae such as those of <i>Filaroides hirthi</i> , <i>Filaroides osleri</i> , <i>Strongyloides</i> sp. and <i>Dictyocaulus</i> sp. are better recovered using flotation techniques. Lungworms, such as <i>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.							
Basic-Extracted Drugs	70.00 /sample; plus \$25 for STAT	Toxicology	M-F	2 days	1) 4 ml heparinized (preferred) or EDTA plasma or serum; OR 2) 10 ml heparinized (preferred) or EDTA whole blood; OR 3) 50 ml urine	Heparinized tube(s), no gel clot; or red top tube with transferred heparinized plasma, labeled accordingly. Less ideal: red top tube with transferred serum or EDTA plasma OR red top/lavender top tube(s) with whole blood OR urine in leak-proof container	1-3) Refrigerate. Ship for next day delivery in insulated container with freezer pack(s)
(including but not limited to): Acepromazine, Amphetamine, Apomorphine, Atropine, Benzocaine, Brompheniramine, Brucine, Bupivacaine, Caffeine, Cimetidine (Tagamet), Chlorpromazine, Cocaine, Codeine, Cyproheptadine, Dextromethorphan, Diazepam, Dihydrocodeine, Dipyrone, Doxapram, Embutramide, Ephedrine, Griseofulvin, Hordenine, Hydrocodone, Ketamine, Lidocaine, Mepivacaine, Meprobamate, Methocarbamol, Methylphenidate, Methamphetamine, Metoclopramide, Pentazocine, Phenacetin, Phentothiazine, Procaine, Promazine, Propylpropranolamine, Propoxyphene, Pyrilamine, Rantidine (Zantac), Strychnine, Tetracaine, Theobromine, Theophylline, Trimethoprim, Tropicamide, Xylazine For more information, see Appendix B. \$25.00 will be added for STAT processing.							
Beta-Hydroxybutyrate (BHBA)	13.00	Clinical Pathology	M-Sa	1-2 days	1 mL separated serum, EDTA plasma, or heparinized plasma	Red top (non-anticoagulant), green top (heparin) tube, or purple top (EDTA tube)	Refrigerate. Ship overnight in insulated container with freezer pack.
See Test Info and Protocols for more information. Test reference ranges can be found at Clinpath Reference Intervals. For test interpretation, refer to eclinpath.com							
Bethesda Unit Assay	52.00	Comparative Coagulation	M	1 wk	citrate plasma	plastic or siliconized glass tube in styrofoam box	Refrigerate. Ship in insulated container with ice pack.
Bethesda units/mL: measure of factor inhibitory activity Ship Overnight. For additional info see Submission Guidelines or Comp Coag web page							
Bicarbonate	9.00 /sample (blood, fluid)	Clinical Pathology	M-Sa	1-2 days	1) 1 mL separated serum or heparinized plasma; 2) fluid	Red top (non-anticoagulant) or green top (heparin) tube	Refrigerate. Ship overnight in insulated container with freezer packs.
See Eclinpath for more information							
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.
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							
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.
Post-Prandial Panel For test interpretation, refer to eclinpath.com See Test Info and Protocols 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-081-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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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.
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							
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							

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Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
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 <a href="https://ahdc.vet.cornell.edu/Sects/ClinPath/sample/test/hema.cfm#Bloodsmear">https://ahdc.vet.cornell.edu/Sects/ClinPath/sample/test/hema.cfm#Bloodsmear</a></p>							
Bovine Metabolic Panel	30.50	Clinical Pathology	M-Sa	1-2 days	2 mL separated serum	plain glass or plastic tube	Refrigerate
<p>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.</p>							
Bronchoalveolar Lavage Count Cytology (smear exam and count: 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.
<p>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</p>							
Bronchoalveolar Lavage Cytology (smear exam only)	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
<p>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</p>							
Brucella Card Agglutination	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.
<p>Non-canine This test will not reliably detect <i>Brucella ovis</i>, <i>Brucella mellitensis</i>, <i>Brucella canis</i>, or <i>Brucella suis</i>. It is intended as a screening test for the detection of antibodies against <i>Brucella abortus</i>.</p>							
Brucella Culture, non-canine	25.00 /sample	Bacteriology	M-F	5-14 days	Affected tissue, lesion or fluid aspirate	Amies transport media (swab) or sealed sterile containers	Refrigerate. Ship in insulated container with ice pack.
<p>For the isolation of <i>Brucella</i> species only. *May qualify for New York State contract pricing. Antimicrobial susceptibilities are not applicable. Refer to <i>Brucella canis</i> Culture for canine submissions.</p>							
Cache Valley Fever Virus SN	14.50 sample	Virology	As needed	7 days	1 mL serum	red top blood collection tube	It is recommended to ship samples with an ice pack.
<p>Serum Neutralization Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze. Paired serum samples are recommended for optimal diagnostic test interpretation.</p>							
Cadmium (Atomic Absorption Spectroscopy - Graphite Furnace)	35.00	Toxicology	M-F	3 days	1) 2g tissue; 2) 100g feed	1) sterile container; 2) any container	1) Refrigerate; 2) none

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

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## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Calcium  Measures total calcium in serum, plasma and fluids. See 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 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.
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	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

## Animal Health Diagnostic Center Test and Fee Schedule

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

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## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
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	
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
Contagious Equine Metritis (CEM) CF Highly contagious venereal disease in mares, transmitted by stallions, caused by Taylorella equigenitalis Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze.	11.00 /sample	Virology	Tu, Th	2-4 days	1 ml serum	red top blood collection tube	It is recommended to ship samples with an ice pack.
Contagious Equine Metritis (CEM) Culture Equine only. For the isolation of Taylorella equigenitalis and Taylorella asinigenitalis. Due to very particular culture processes and sampling requirements, PLEASE CONTACT THE LAB FOR TEST SCHEDULING AND SAMPLING REQUIREMENTS. Ask to speak to someone in Regulatory Affairs. Ship overnight, in insulated container, with frozen ice packs. Samples MUST be received within 48 hours of collection to be tested. Transport media must not be expired. Samples must arrive cold. Do not cover expiration dates with labels or tape. Charges are assessed PER SWAB submitted. See our instructions for collecting CEM culture samples, including photo images. Amies with charcoal bacterial transport media, including those with mini-tipped swabs, are available from our diagnostic supply center.	22.00 /swab	Bacteriology	M-Sa	7 days	1) Stallions: Pre-ejaculatory fluid, penile prepuce or sheath, urethra, urethra diverticulum; 2) Mares: Cervix, endometrial, clitoral sinus, clitoral fossa. Clitoral sinus sample must be collected using a mini-tipped swab. See collection container info for specific media requirements. Multiple samples are required and sampling at multiple times may also be indicated. Regulatory requirements vary regarding which samples must be submitted and the schedule for submission.	1-2) Amies transport media WITH charcoal (swab) ONLY. Clitoral sinus sample must be collected using a mini-tipped swab. Media must not be expired. Do not cover expiration date with labels or tape. Sample must arrive in lab within 48 hours of sample collection. Samples must arrive cold. Please put date and time of collection on swab label.	1-2) With frozen ice packs in insulated container
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.
Cortisol baseline For more information, see Appendix C	16.00	Endocrinology	M-F	1-3 days	1 mL serum	plastic or glass 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
Cortisol Post ACTH  Post treatment sample USE THIS TEST FOR CANINE SERUM SAMPLES DRAWN FOLLOWING THE ADMINISTRATION OF ACTH	10.50	Endocrinology	M-F	1-3 days	1 mL serum	plastic or glass tube	Refrigerate. Ship in insulated container with ice pack.
Cortisol Post Dexamethasone USE THIS TEST FOR ALL POST-DEXAMETHASONE SAMPLES. For more information, see Endocrinology Submission Guidelines	10.50	Endocrinology	M-F	1-3 days	1 mL serum	plastic or glass tube	Refrigerate
Cortisol: ACTH response  Pre-treatment sample USE THIS TEST FOR CANINE SERUM SAMPLES DRAWN PRIOR TO THE ADMINISTRATION OF ACTH. For more information, see Canine Adrenal Function Tests, Equine Cushings Tests, Feline Adrenal Function Tests, or Appendix C.	14.50	Endocrinology	M-F	1-3 days	1 mL serum	plastic or glass tube	Refrigerate. Ship in insulated container with ice pack.
Cortisol: Dex suppression USE THIS TEST FOR PRE-DEXAMETHASONE SERUM SAMPLES. For more information, see Endocrinology Submission Guidelines	14.50	Endocrinology	M-F	1-3 days	1 mL serum	plastic or glass tube	Refrigerate
Cortisol: Post TRH For more information, see Appendix C	10.50	Endocrinology	M-F	1-3 days	1 mL serum	plastic or glass tube	Refrigerate
Cortisol: TRH response Equine For more information, see Appendix C	14.50	Endocrinology	M-F	1-3 days	1 mL serum	plastic or glass tube	Refrigerate
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
Crossmatch Donor 1  Do not freeze	42.00 per donor	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
Cryptorchid Panel, Equine: Testosterone and Estrone Sulfate  Includes Testosterone and Estrone Sulfate Only for males >3 years old. To screen younger males, use the testosterone baseline or the HCG Response test: 2 testosterone	44.00	Endocrinology	Monday	4 days	1 mL serum; avoid EDTA	plastic or glass tube	Refrigerate. Ship w/ cold pack
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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## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Cyanide	55.25 /sample	Toxicology	M-F	2 days	1) 10 mL EDTA whole blood; 2) 10 mL heparinized whole blood; 3) 50g stomach contents; 4) 100g forage, silage, or other material	Heparinized or EDTA tube; air-tight container	1-2) Refrigerate; 3-4) freeze
1-2) Refrigerate promptly; Cannot analyze in plasma or serum - Need whole blood. Do not use heparin separator tubes (gel tubes) 3-4) freeze samples promptly, keep samples cold in transit: special request only, contact Lab to make arrangements							
Cytology Smear Exam	48.00	Clinical Pathology	M - F	1-2 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							
D-dimer Quantitative	30.50	Comparative Coagulation	M-F	same day	separated citrate plasma	plastic or siliconized glass tube in styrofoam box	Refrigerate/ship on cold pack
Ship Overnight. Rodent assay fee is \$59.50. For additional info see Comp Coag web page							
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							
Direct Coombs	37.00	Clinical Pathology	M-Sa	1-2 days	2-5 mL EDTA blood AND 2 dry (unfixed, unstained) blood smears	lavender top tube AND frosted-end slides	Refrigerate fluids. Ship overnight in insulated container with freezer packs. Keep slide at room temperature; protect from chilling/coolant by insulating separately during shipment.
Testing for the presence of antibody or complement on RBCs. It is generally performed as a supportive diagnostic test for immune-mediated hemolytic anemia. For test interpretation, refer to eclinpath.com							
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.							

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VSS-WEB-081-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
Electrophoresis, blood  For test interpretation, refer to eclinpath.com	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
Electrophoresis, fluid  All species; please specify site of fluid collection	60.00	Clinical Pathology	1x/wk	7-10 days	Body fluids. Please specify site.	Red top (non-anticoagulant) tube	Refrigerate
Electrophoresis, urine  For test interpretation, refer to eclinpath.com See Test Info and Protocols for more information	60.00	Clinical Pathology	1x/wk	7-10 days	) 5-7 mL urine	Red top (non-anticoagulant) tube	Refrigerate
Enteric Bacteriology Cultures, Panel 1  Includes aerobic culture [E. coli, Rhodococcus (foals only), Shigella (primates only)], and Salmonella culture. *May qualify for New York State contract pricing. Aerobic culture not tested on calves over 10 days of age. Antimicrobial Susceptibility (MIC) are not included in the testing fee. Please consider the Foal Diarrhea/Septicemia Kit for foal submissions.	62.00 /sample	Bacteriology	M-Sa	3-7 days	1) Fresh feces or intestinal contents; 2) Ligated ileum or jejunum; 3) Mesenteric lymph node; 4) Swab of 1-3	1) Sealed, sterile container or ParaPak; 2-3) Sealed sterile container; 4) Swab in Amies transport media	1-3) Refrigerate. Ship in insulated container with ice pack. EXCEPT ParaPak, which is shipped at room temperature and protected from temperature extremes.
Enteric Bacteriology Cultures, Panel 2  Includes aerobic culture [E. coli, Rhodococcus (foals only), Shigella (primates only)], Salmonella culture and Campylobacter jejuni culture. Antimicrobial Susceptibility (MIC) are not included in the testing fee. Susceptibilities not applicable to Campylobacter jejuni.	87.00 /sample	Bacteriology	M-Sa	3-7 days	1) Fresh feces or intestinal contents; 2) Ligated ileum or jejunum; 3) Mesenteric lymph node; 4) Swab of 1-3	1) Sealed, sterile container or ParaPak; 2-3) Sealed sterile container; 4) Swab in Amies transport media	1-3) Refrigerate. Ship in insulated container with ice pack. EXCEPT ParaPak, which is shipped at room temp and protected from temperature extremes.
Enteric Bacteriology Cultures, Panel 3  Includes aerobic culture [E. coli, Rhodococcus (foals only), Shigella (primates only)], Salmonella culture, Campylobacter jejuni culture, anaerobic culture [Clostridium perfringens (all species) and Clostridium difficile* (foals and primates only)] Antimicrobial Susceptibility (MIC) are not included in the testing fee. Susceptibilities are not applicable to Campylobacter jejuni and Clostridia species. *Culture for Clostridium difficile in other species available by request only. **Culture for Clostridium difficile in other species available by request only. **Anaerobic Transport medias (e.g. BBL™ Port-a-cul™ or Anaerobic Systems ATM) are suitable for most aerobic cultures, including for the aerobes of concern in enteric infections. Despite labelling to the contrary, culture systems containing Amies transport media or Stuart transport media are inappropriate as transport systems for anaerobic culturing. Swabs transported without any transport media are unsuitable for both aerobic and anaerobic culture.	132.00 /test	Bacteriology	M-Sa	3-7 days	1) Anaerobic transport media inoculated with swab of fresh feces or intestinal contents; or 2) Ligated ileum or jejunum; and/or 3) Mesenteric lymph node	1) Anaerobic transport media** (BBL™ Port-a-cul™ or Anaerobic Systems ATM); or 2-3) Sealed sterile container	1) DO NOT Refrigerate anaerobic transport media tubes or vials; 2-3) Tissues are ideally held and shipped frozen with sufficient insulation and freezer packs to arrive next day and very cold; refrigerated temperatures are acceptable only for tissue samples delivered to the lab within 24 hours of collection.
Environmental Samples (for parasites)  Please contact Lab: fee depends on parasite of interest, type of sample submitted, and processing required	25.00 See comments for fee	Parasitology	M-F	1-7 days	Please contact Lab before submitting sample to determine if sample is appropriate for testing.		
Equine Abortion Serology Panel  Includes Lepto M-A, EHV-1 SN, EAV SN, EIV HI See additional info for abortion samples	89.50	Multiple Sections	varies	5-8 days	4 mL serum	red top blood collection tube	

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Equine Abortin Virus Isolation  Includes: EHV-1, EAV, ER-A + Unknowns See Appendix E for submission details	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 pack
Equine Adenovirus (EAD) FA  Fluorescent antibody	25.00 /animal	Virology	M-F	2-4 days	Fresh lung, spleen, lymph nodes	Sealable plastic bag or container	Ship in insulated container with ice pack
Equine Adenovirus (EAD) SN  Serum Neutralization Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze. Paired serum samples are recommended for optimal diagnostic test interpretation.	16.50 /sample	Virology	As needed	5-7 days	1 ml serum	red top blood collection tube	It is recommended to ship samples with an ice pack.
Equine Adenovirus 1 PCR  PCR This is a new test to detect EAdV in horses with respiratory disease. The clinical significance of EAdV-1 is unknown. Submit swabs in sterile, sealed vials with several drops of saline added, to prevent desiccation. Bacterial transport media are not appropriate. Cotton, plastic, wood-handled, and Dacron and other synthetic swabs are acceptable. Calcium alginate swabs should be avoided. This service is performed pursuant to an agreement with Roche Molecular Systems.	36.75	Molecular Diagnostics	M-F as needed	2-3 days	1) Nasal swab; 2) Oropharyngeal swab Nasopharyngeal wash (NPW) and tracheal wash (TW) samples may also be appropriate respiratory samples from horses.	Sealed vials that prevent desiccation	Refrigerate. Ship in insulated container with ice packs
Equine Adenovirus 2 PCR  reverse transcriptase - quantitative polymerase chain reaction (RT-qPCR) EAdV-2 has not been identified in the United States as of 1/29/2014. The clinical significance of infection is unclear. Submit swabs in sterile, sealed vials with several drops of saline added, to prevent desiccation. Bacterial transport media are not appropriate. Cotton, plastic, wood-handled, and Dacron and other synthetic swabs are all acceptable. Calcium alginate swabs should be avoided. This service is performed pursuant to an agreement with Roche Molecular Systems.	36.75	Molecular Diagnostics	M-F as needed	2-3 days	1) Feces; 2) Fecal swab; 3) Nasal swab; 4) Oropharyngeal swab	sealed, unbreakable container	Refrigerate. Ship in insulated container with ice packs
Equine Arteritis Virus (EAV) FA  Flourescent Antibody	25.00 /animal	Virology	M-F	2-4 days	1) Abortions: placenta, fetal lung, liver, kidney;(all 4 tissues if possible) 2) Foals: lung, lymph node, spleen; (al 3 tissues if possible)	Sealable plastic bag or container	Ship in insulated container with ice pack
Equine Arteritis Virus (EAV) Isolation  Virus isolation Swabs in bacterial transport medium (Ames, Port-a-cul, etc) 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	For adult acute infections - 1) EDTA whole blood; 2) Nasopharyngeal swab; For Abortions - 3) Placenta; 4) Fetal tissues - lung, liver, kidney, spleen; For Foal pneumonia - 5) Lung, lymph node, spleen	1) Lavender top tube; 2) Viral transport media; 3,4,5) Sealable plastic bag or container	Ship in insulated container with ice pack
Equine Arteritis Virus (EAV) Semen Isolation (OIE)  OIE Protocol Contact Regulatory Affairs (607-253-4141) prior to semen collection as laboratory requires notification in advance to prepare cell cultures for testing. If not shipped overnight, semen must be frozen immediately and shipped frozen. As a biological assay we do not guarantee test results being available on any given day.	110.25	Virology	T-Th	10-15 days	fresh or frozen semen	Leakproof container	Ship in insulated container with ice packs or dry ice.
Equine Arteritis Virus (EAV) SN  Serum Neutralization Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze. Paired serum samples are recommended for optimal diagnostic test interpretation. Plasma is not an acceptable sample for this assay.	16.50 /sample	Virology	Tu, F	3-5 days	1 ml serum	red top blood collection tube	It is recommended to ship samples with an ice pack.

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Equine Arteritis Virus PCR  reverse transcriptase - quantitative polymerase chain reaction (RT-qPCR) This is a new test to detect EAV which may be identified in horses during outbreaks of acute respiratory disease and urinary tract infections. Submit swabs in sterile, sealed vials with several drops of saline added, to prevent desiccation. <b>Bacterial transport media are not appropriate for PCR assays.</b> If culture is desired, submit a separate swab in an acceptable bacterial transport media. Cotton, plastic, wood-handled, and Dacron and other synthetic swabs are all acceptable for PCR-based assays. Calcium alginate swabs should be avoided This service is performed pursuant to an agreement with Roche Molecular Systems.	36.75	Molecular Diagnostics	M-F as needed	2-3 days	Nasal (NASCF) or oropharyngeal (ORAPH) swabs collected from horses with respiratory disease signs. Nasopharyngeal wash (NPW) and tracheal wash (TW) samples may also be appropriate respiratory samples from horses.	Sealed vials that prevent desiccation	Refrigerate. Ship in insulated container with ice packs
Equine Enteric Coronavirus PCR  The beta coronavirus PCR employed by the AHDC will detect canine respiratory coronavirus, camelid enteric coronavirus, equine enteric coronavirus and the respiratory and enteric coronaviruses of cattle. Submit swabs in sterile, sealed vials with several drops of saline added, to prevent desiccation. Bacterial transport media are not appropriate for PCR assays. If culture is desired, submit a separate swab in an acceptable bacterial transport media. Cotton, plastic, wood-handled, and Dacron and other synthetic swabs are all acceptable for PCR-based assays. Calcium alginate swabs should be avoided. For more information about beta coronavirus infections and prevalence in equine, refer to Equine Enteric Coronavirus Fact Sheet. This service is performed pursuant to an agreement with Roche Molecular Systems.	36.75	Molecular Diagnostics	M-F as needed	3-5 days	1) Feces; 2) Fecal swab 3) Intestinal tissue	1) unbreakable leak-proof container; 2) Red top tube; 3) leakproof container	Refrigerate
Equine Hepatitis Virus PCR Panel  Panel includes PCR testing for Theiler's Disease, Non-Primate Hepatitis Virus, Equine Pegivirus and Equine Parvovirus	100.00	Virology	As needed	2 - 4 days	1 mL serum, fresh liver, equine biological products, formalin fixed, paraffin embedded liver-for an additional fee	leak proof container-no bags	Refrigerate. Do not freeze. Ship overnight in insulated containers with freezer packs
Equine Hepatitis Virus PCR Panel 2  Equine Serum Hepatitis PCR panel for regulatory purposes – equine parvovirus and equine hepacivirus (nonprimate hepatitis virus) This panel includes PCR tests for NPHV and EqParvovirus. This PCR panel meets the proposed CVB regulation for testing of equine origin products	65.00	Virology	As needed	2 - 4 days	serum, plasma, liver tissue fresh or FFPE		Refrigerate. Do not freeze. Ship overnight in insulated container with ice packs.
Equine Herpes Virus 1 Neurological Genotyping  EHV-1 Neurological Genotyping This is an add-on test to EHV-1 PCR or the Equine Respiratory Panel; it is only performed on EHV-1 positive or suspect samples. Although EHV-1 strains harboring the ORF30 G2254 allele are known to be causally associated with neurologic disease, many other host, pathogen, and environmental factors may play a role. This service is performed pursuant to an agreement with Roche Molecular Systems.	24.00	Molecular Diagnostics	M-F as needed	1 day followin	1) EDTA blood (min. 2 mL); 2) nasopharyngeal swab; 3) tracheal wash (min. 10 mL); 4) tissues, min. 2g (lung, liver, spleen, myocardium, placenta, fetus); 5) CSF (Cerebral Spinal Fluid)	unbreakable, leak-proof container	Refrigerate. Ship in insulated container with ice packs
Equine Herpes Virus 4 PCR  Molecular Amplification of nucleic acid This assay can be ordered individually or as part of a panel testing for respiratory pathogens of horses Submit swabs in sterile, sealed vials with several drops of saline added, to prevent desiccation. <b>Bacterial transport media are not appropriate for PCR assays.</b> If culture is desired, submit a separate swab in an acceptable bacterial transport media. Cotton, plastic, wood-handled, and Dacron and other synthetic swabs are all acceptable for PCR-based assays. Calcium alginate swabs should be avoided. This service is performed pursuant to an agreement with Roche Molecular Systems.	36.75	Molecular Diagnostics	M - F as needed	2-3 days	4 mL EDTA blood; Nasal Swab; nasal pharyngeal wash	EDTA purple top tube; swab in virus transport media or red top tube with 0.5 ml saline	Refrigerate. Ship in insulated container with ice pack
Equine Herpesvirus 2 qPCR  Detects Equine herpesvirus type 2 (EHV-2) only. Request the Gamma-EHV panel for EHV-2 and 5 testing. EHV-2 is widespread in horses and may or may not be associated with clinical signs. It has been associated with a wide range of chronic clinical conditions including fatigue, poor performance, and immunosuppression. Acute manifestations include severe outbreaks of respiratory infections, with most severe clinical signs in 6-10 week old foals and secondary bacterial infections in older animals. It has been isolated from horses of various ages with keratoconjunctivitis, and some isolated abortion cases have also been reported. This service is performed pursuant to an agreement with Roche Molecular Systems.	36.75	Molecular Diagnostics	M - F	2 days	Nasopharyngeal swab; EDTA blood; ; tracheal wash; tissue culture supernatant; tissues	Swab in sterile vial with 2-3 drops sterile saline or in viral transport media; <b>DO NOT PLACE IN BACTERIAL TRANSPORT MEDIA;</b> Other samples in leak-proof container	Refrigerate. Ship in insulated container with ice pack.

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-081-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
Equine Herpesvirus 5 qPCR	36.75	Molecular Diagnostics	M - F	2 days	Lung tissue; nasopharyngeal swab; EDTA blood; tracheal wash; tissue culture supernatant	Swab in sterile vial with 2-3 drops sterile saline or in viral transport media; DO NOT PLACE IN BACTERIAL TRANSPORT MEDIA; Other samples in leak-proof container	Refrigerate
<p>Detects Equine herpesvirus type 5 (EHV-5) only. Request the Gamma-EHV panel for EHV-2 and 5 testing. The clinical signs associated with EHV-5 may include fever, pharyngitis, enlarged lymph nodes, or other upper respiratory signs. Recently, Williams et al. (2007 and 2013) showed that the virus causes a condition known as equine multinodular pulmonary fibrosis (EMPF). This service is performed pursuant to an agreement with Roche Molecular Systems.</p>							
Equine Herpesvirus Gamma PCR Panel	60.00	Molecular Diagnostics	M - F	2 days	Lung tissue; nasopharyngeal swab; EDTA blood; tracheal wash; tissue culture supernatant	Swab in sterile vial with 2-3 drops sterile saline or in viral transport media; DO NOT PLACE IN BACTERIAL TRANSPORT MEDIA; Other samples in leak-proof container.	Refrigerate. Ship in insulated container with ice pack.
<p>Detects equine gamma-herpesviruses 2 and 5 by qPCR. This service is performed pursuant to an agreement with Roche Molecular Systems.</p>							
Equine Herpesvirus PCR Panel	60.00	Molecular Diagnostics	M-F as needed	2 days	EDTA blood (min. 2 mL); nasopharyngeal swab; tracheal wash (min. 10 mL); tissues, min. 2g (lung, liver, spleen, myocardium, placenta, fetus); or CSF (cerebrospinal fluid)	Unbreakable, leak-proof container.	Refrigerate. Ship in insulated container with ice packs.
<p>EHV1PCR and EHV4PCR (EHVN will be run on positive EHV-1 samples at no charge) Submit swabs in sterile, sealed vials with several drops of saline added, to prevent desiccation. <b>Bacterial transport media are not appropriate for PCR assays.</b> If culture is desired, submit a separate swab in an acceptable bacterial transport media. Cotton, plastic, wood-handled, and Dacron and other synthetic swabs are all acceptable for PCR-based assays. Calcium alginate swabs should be avoided. This service is performed pursuant to an agreement with Roche Molecular Systems.</p>							
Equine Herpesvirus Type-1 (EHV-1) PCR	36.75	Molecular Diagnostics	M-F as needed	2-3 days	1) EDTA blood (min. 2 mL); 2) nasopharyngeal swab; 3) tracheal wash (min. 10 mL); 4) tissues, min. 2g (lung, liver, spleen, myocardium, placenta, fetus); 5) CSF (Cerebral Spinal Fluid)	unbreakable, leak-proof container	Refrigerate
<p>EHV-1 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. For add'l info on submitting samples for virus isolation, see Transport Media for Diagnostic Sampling. Stat processing is available for individual blood, serum or plasma samples. A \$50 fee will be charged for each stat sample tested. Samples arriving before 12pm will be reported out by 5pm the same day. Samples arriving after 12pm, will be reported by 1pm the next day. In addition, if EHV-1 is detected, you can request Equine Herpes Virus 1 Neurological Genotyping to determine if the infecting strain has the "neurotropic" mutation. That will also incur a separate fee. This service is performed pursuant to an agreement with Roche Molecular Systems.</p>							
Equine Herpesvirus-1 (EHV-1) (Rhinopneumonitis) FA	25.00 /animal	Virology	M-F	2-4 days	Abortion - 1) Placenta, fetal lung, liver, kidney, adrenal, spleen; Respiratory samples - 2) Tracheal wash, broncho-alveolar lavage; 3) Upper airway tissue, lung	1) Sealable plastic bag or container; 2) Leakproof container; 3) Sealable plastic bag or container	Ship in insulated container with ice pack.
<p>Flourescent Antibody Nasal or pharyngeal swabs are only appropriate for virus isolation</p>							
Equine Herpesvirus-1 (EHV-1) (Rhinopneumonitis) Isolation	70.00 /animal	Virology	M-F	21-30 days, s	Abortion - 1) Placenta, fetal lung, liver, kidney, adrenal, spleen; Respiratory - 2) Nasal swab, pharyngeal swab; 3) Tracheal wash, broncho-alveolar lavage; 4) Upper airway tissue, lung; 5) EDTA blood	1) Sealable plastic bag or container; 2) Swabs in Viral Transport Medium; 3) Leakproof container; 4) Sealable plastic bag or container; 5) Lavender top blood tube	Ship in insulated container with ice pack.
<p>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.</p>							
Equine Herpesvirus-1 (EHV-1) (Rhinopneumonitis) SN	14.50 /sample	Virology	Tu, F	3-7 days	1 ml serum	red top blood collection tube	It is recommended to ship samples with an ice pack.
<p>Antibody detection test; not ideal for testing acutely ill animals 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. For more information and titer graph, please see Equine Herpesvirus 1 (EHV-1) Serum Neutralization Test Data</p>							

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VSS-WEB-081-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
Equine Herpesvirus-2 (EHV-2) SN Serum neutralization Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze. Paired serum samples are recommended for optimal diagnostic test interpretation.	16.50 /sample	Virology	As needed	7-10 days	1 ml serum	red top blood collection tube	It is recommended to ship samples with an ice pack.
Equine Herpesvirus-3 (EHV-3) Isolation (Coital Exanthema) Virus isolation Swabs in bacterial transport medium are not appropriate for virus isolation or PCR testing.	70.00 /animal	Virology	M-F	21-30 days, s	lesion material	sterile container	Ship in insulated container with ice pack.
Equine Herpesvirus-3 (EHV-3)SN (Coital Exanthema) Serum neutralization Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze. Paired serum samples are recommended for optimal diagnostic test interpretation.	14.50 sample	Virology	As needed	4-7 days	1 ml serum	red top blood collection tube	It is recommended to ship samples with an ice pack.
Equine Herpesvirus-4 (EHV-4) SN Serum neutralization Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze. Paired serum samples are recommended for optimal diagnostic test interpretation.	14.50 /sample	Virology	Tu, F	7 days	1 ml serum	red top blood collection tube	It is recommended to ship samples with an ice pack.
Equine Infectious Anemia (EIA) Virus AGID Agarose gel immuno-diffusion ELISA samples older than 21 days must be tested by the AGID unless the blood has been spun down and the serum stored frozen. Samples older than 28 days cannot be tested unless the blood has been spun down and the serum stored frozen. Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze. Please see Equine Infectious Anemia Testing Service Update for sample handling requirements. All EIA testing must be submitted with an official State or Federal (VS Form 10-11) form. The AHDC is also a Global Vet Link (GVL) participating laboratory. The AHDC will only perform the EIA AGID test on samples submitted with forms indicating testing for the purpose of exporting the horse or products from the horse, or when sample age or storage do not match the quality standards for the EIA ELISA test. In all other instances for EIA testing submissions to the AHDC, the EIA ELISA test will be the default test regardless of whether the AGID box is checked on the EIA form. <b>Requests to correct animal and/or owner demographics after release of results, requiring us to recall and amend previously distributed reports, will result in a \$10 surcharge.</b>	10.00 /sample ; STAT +5.00	Virology	M-F	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.
Equine Infectious Anemia (EIA) Virus c-ELISA Enzyme-Linked Immunosorbent Assay Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze. Samples must be in testing Lab by 10:00 am for same day results. Samples older than 21 days must be tested by AGID unless blood has been spun and the serum stored frozen. All EIA testing must be submitted with an official State or Federal (VS Form 10-11) form. Please see Infectious Anemia Testing Service Update for more information. The AHDC is also a Global Vet Link (GVL) participating laboratory. <b>Requests to correct animal and/or owner demographics after release of results, requiring us to recall and amend previously distributed reports, will result in a \$10 surcharge.</b>	10.00 ; STAT +20.00	Virology	M-F	1 day	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.
Equine Influenza Virus (EIV) HAI Hemagglutination Inhibition 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	Virology	Thursday	2-7 days	2 mL serum	red top blood collection tube	
Equine Influenza Virus (EIV) Isolation 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) Upper airway tissue; lung	1) Swabs in Viral Transport Medium; 2) Leakproof container; 3) Sealable plastic bag or container	Ship in insulated container with ice pack
Equine Influenza Virus Matrix PCR This PCR assay will detect H3N8 influenza virus, which has traditionally been the influenza type identified in horses. It also can detect other type A influenza viruses circulating among most different species, including 2009 H1N1. This assay does not specifically identify the influenza H and N types. That testing can potentially be requested on positive samples if unusual outbreaks or cross-species transmission is suspected. Submit swabs in sterile, sealed vials with several drops of saline added, to prevent desiccation. <b>Bacterial transport media are not appropriate for PCR assays.</b> If culture is desired, submit a separate swab in an acceptable bacterial transport media. Cotton, plastic, wood-handled, and Dacron and other synthetic swabs are all acceptable for PCR-based assays. Calcium alginate swabs should be avoided. This service is performed pursuant to an agreement with Roche Molecular Systems.	36.75	Molecular Diagnostics	M-F as needed	3-5 days	1) nasal swab; or 2) tissue (min. 5 g); or 3) allantoic fluid (min. 2 mL) or other culture	unbreakable, leak-proof container	Refrigerate

# Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Equine Metabolic Syndrome Diagnostic Plan  Plan includes testing for ACTH, Insulin, Leptin, Glucose and T4 Delayed serum separation or submission of whole blood (cells on serum) results in a falsely decreased (uninterpretable) glucose. Test reference ranges can be found at Clinpath Reference Intervals.	94.00	Multiple Sections	M - F	1-4 days for a	(1) EDTA plasma in LTT (separated and placed in plastic tube or plain RTT) and frozen within 4 hours of obtaining sample; AND (2) serum (separated promptly). SHIP CHILLED/FROZEN.	1) Lavender top tube AND 1) Red top tube	(1) Separate and Freeze plasma within 4 hours of drawing sample; (2) Separate serum promptly and refrigerate. Ship chilled with ice packs in insulated container
Equine Neurological Disease Virus Isolation  Includes: EHV-1, WNV, EEE + Unknowns	70.00 /animal	Virology	M-F	21-30 days, s	1) Neural tissue; 2) CSF; 3) EDTA blood (EHV-1)	1) Sealable plastic bag or container; 2) Leak-proof container; 3) Purple top blood collection tube	Ship in insulated container with ice pack
Equine Parvovirus PCR  Test to detect equine parvovirus by PCR	36.75	Virology	as needed		serum, liver, EDTA blood, formalin fixed tissue (see comments).	leak-proof container, EDTA blood tubes	Refrigerate
Equine Pasture Pregnancy Panel Tests included in this panel are: Estrone Sulfate, Pregnant Mare Serum Gonadotropin, Progesterone baseline Estrone sulfate for greater than 90 days pregnant; PMSG for 45-100 days pregnant; Progesterone for less than 60 days pregnant. See Equine Female Reproductive Testing for more information. For more information about this plan, please see Equine Diagnostic Plans/Panels.	69.50	Endocrinology			Serum (separated)	Red top tube	Ship chilled
Equine Pegivirus PCR  Real time PCR to detect equine pegivirus This test has not been fully validated and is in the development phase. For questions, contact Dr. Ed Dubovi at 607-253-3900. The EPgV PCR test is based on the most up to date scientific knowledge of nucleic acid sequences from currently circulating viruses. A lack of test sensitivity can be due to factors such as virus mutation, possible latent stage infection or early acute infections where the viral load is below the detectable limit of the test. Therefore, we recommend follow up testing in 2-3 months after the initial testing.	36.75	Virology	as needed	5-7 days	serum; whole blood; liver	blood tube or unbreakable, leak proof container	Refrigerate. Ship for next day delivery in insulated container with freezer packs.
Equine Respiratory Disease Virus Isolation  Includes: EHV-1, EAV, EHV-4, EIV, ERA, ER-B, EAD + Unknowns 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) Upper airway tissue, lung	1) Swabs in Viral Transport Medium; 2) Leakproof container; 3) Sealable plastic bag or container	Ship in insulated container with ice pack
Equine Respiratory PCR Panel  The Equine respiratory panel will test for equine herpesviruses 1 and 4, equine adenoviruses 1 and 2, Equine rhinitis viruses A and B, influenza A virus (matrix), Mycoplasma felis and Streptococcus equi. Nasal, nasopharyngeal, or oropharyngeal swabs collected from horses with respiratory disease signs. Submit swabs in sterile, sealed vials with several drops of saline added, to prevent desiccation. <b>Bacterial transport media are not appropriate for PCR assays.</b> If culture is desired, submit a separate swab in an acceptable bacterial transport media. Cotton, plastic, wood-handled, and Dacron and other synthetic swabs are all acceptable for PCR-based assays. Calcium alginate swabs should be avoided. Nasopharyngeal wash, tracheal wash and broncho-alveolar lavage samples are also appropriate respiratory samples from horses. Post-mortem lung tissue can also be tested. NOTE: For EHV-1 and EHV-4 suspect horses, it is also recommended that you submit an EDTA whole blood sample at the same time as you submit the nasal swab, for EHV-1 and/or EHV-4 PCR testing. This broad respiratory panel is not appropriate for testing whole blood since only EHV-1 and EHV-4 would be likely to be detected in a blood sample. Blood specimens submitted with respiratory samples will be tested for EHV-1 (and EHV-4 if requested) and additional fees will be applied. In addition, if EHV-1 is detected, you can request Equine Herpes Virus 1 Neurological Genotyping to determine if the infecting strain has the "neurotropic" mutation. That will also incur a separate fee.	115.00 *SEE COMMENTS BELOW	Molecular Diagnostics	Mon - Fri as needed	2-3 days	1)1 Nasal Swab or 2) deep pharyngeal swab or 3)trans-tracheal wash or Bronchoalveolar lavage or 4) lung tissue	(1-2) Swab in sterile vial with 2-3 drops sterile saline or in viral transport media; DO NOT PLACE IN BACTERIAL TRANSPORT MEDIA or (3-4) Fluid or tissue in Leak-proof container	Refrigerate

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Equine Respiratory Serology Diagnostic Plan  Tests included in this Plan are: Equine Adenovirus (EAD) SN; Equine Arteritis Virus (EAV) SN; Equine Influenza Virus (EIV) HAI; Equine Herpesvirus-1 (EHV-1) (Rhinopneumonitis) SN, Equine Rhinovirus-1 (ER-A) (Equine Rhinitis A virus) SN, Equine Rhinovirus-2 (ER-B) (Equine Rhinitis B virus) SN 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. Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze. For more information about this plan, please see Equine Diagnostic Plans/Panels. *May qualify for New York State contract pricing.	91.00	Virology	Varies	7-10 days	3 ml serum	red top blood collection tube	It is recommended to ship samples with an ice pack.
Equine Respiratory, Adult (Acute) Diagnostic Plan  Tests included in this plan are : Equine Respiratory PCR Panel, Streptococcus equi Culture* (no sensitivity included), Virus Isolation. It may be helpful to collect and bank a serum sample for possible acute and convalescent serology. PCR can be substituted for Streptococcus equis culture at an additional cost. This requires a nasal swab in sterile RTT with 0.5 ml of sterile saline. This panel does not include other bacterial respiratory pathogens which would require a transtracheal wash (TTW) or bronchial alveolar lavage (BAL). For these, please see the Equine Respiratory, Adult (Chronic) Diagnostic Plan. For more information about both of these plans, please see Equine Diagnostic Plans/Panels. *May qualify for New York State contract pricing.	207.00	Multiple Sections			1) Nasal swab in aerobic transport media (Amies) and 2) nasal swab in sterile RTT with 0.5mL of sterile saline to keep sample moist, not wet.	aerobic transport media (Amies); sterile RTT with 0.5mL of sterile saline to keep sample moist, not wet	Ship chilled
Equine Rhinitis A Virus SN (equine rhinovirus -1)  Serum Neutralization Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze. Paired serum samples are recommended for optimal diagnostic test interpretation. This service is performed pursuant to an agreement with Roche Molecular Systems.	14.50 sample	Virology	Tu, F	3-7 days	1 ml serum	red top blood collection tube	It is recommended to ship samples with an ice pack.
Equine Rhinitis B Virus SN  Serum Neutralization Serum samples are stable at room temperature for several days. If longer, refrigerate or freeze. Paired serum samples are recommended for optimal diagnostic test interpretation.	14.50 sample	Virology	Tu, F	3-7days	1 ml serum	red top blood collection tube	It is recommended to ship samples with an ice pack.
Equine Rhinitis Virus A PCR  reverse transcriptase - quantitative polymerase chain reaction (RT-qPCR) This is a new test to detect ERAV which may be identified in horses during outbreaks of acute respiratory disease and urinary tract infections. It may also be used in cases of abortion in camelids. Submit swabs in sterile, sealed vials with several drops of saline added, to prevent desiccation. <b>Bacterial transport media are not appropriate for PCR assays.</b> If culture is desired, submit a separate swab in an acceptable bacterial transport media. Cotton, plastic, wood-handled, and Dacron and other synthetic swabs are all acceptable for PCR-based assays. Calcium alginate swabs should be avoided.	36.75	Molecular Diagnostics	M-F as needed	2-3 days	Nasal (NASCF) or oropharyngeal (ORAPH) swabs collected from horses with respiratory disease signs. In the absence of viral transport medium, submit swabs in sterile, sealed vials with several drops of saline added, to prevent desiccation. Bacterial transport media are not appropriate. Cotton, plastic, wood-handled, and Dacron and other synthetic swabs are all acceptable. Calcium alginate swabs should be avoided. Nasopharyngeal wash (NPW) and tracheal wash (TW) samples may also be appropriate respiratory samples from horses. Urine samples may be submitted for urinary tract infections in equines or camelids. For abortions in camelids only: fresh placenta and fetal tissues including pancreas, kidney and spleen.	Sealed vials that prevent desiccation.	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
Equine Rhinitis Virus B PCR	36.75	Molecular Diagnostics	M-F as needed	2-3 days	Nasal (NASCF) or oropharyngeal (ORAPH) swabs collected from horses with respiratory disease signs. In the absence of viral transport medium, submit swabs in sterile, sealed vials with several drops of saline added, to prevent desiccation. Bacterial transport media are not appropriate. Cotton, plastic, wood-handled, and Dacron and other synthetic swabs are all acceptable. Calcium alginate swabs should be avoided. Nasopharyngeal wash (NPW) and tracheal wash (TW) samples may also be appropriate respiratory samples.	Sealed vials that prevent desiccation.	Refrigerate. Ship in insulated container with ice packs.
<p>reverse transcriptase - quantitative polymerase chain reaction (RT-qPCR)  This is a new test to detect ERBV which may be identified in horses during outbreaks of acute respiratory disease.  Submit swabs in sterile, sealed vials with several drops of saline added, to prevent desiccation. <b>Bacterial transport media are not appropriate for PCR assays.</b> If culture is desired, submit a separate swab in an acceptable bacterial transport media. Cotton, plastic, wood-handled, and Dacron and other synthetic swabs are all acceptable for PCR-based assays. Calcium alginate swabs should be avoided.  This service is performed pursuant to an agreement with Roche Molecular Systems.</p>							
Equine sCD14 Assay	22.00	Serology	Mon - Fri	1-2 days	Serum. Contact the lab for information on testing samples other than serum (607)-253-4343.	red top blood collection tube	Freeze. Ship to arrive overnight in insulated container with ice packs.
<p>The sCD14 assay utilizes fluorescent bead technology to quantify sCD14 levels in serum relative to a recombinant sCD14 standard.  Please contact the Serology/Immunology laboratory (607-253-3678) before a larger sample submission is planned to provide us with approximate sample numbers and to ensure the timely measurement of your samples. For 20 or more samples received together, the cost is \$12/sample.</p>							
Equine TEG	54.50	Comparative Coagulation	M-F; 9am-4pm	same day	Time sensitive test, please call Coag Lab 607-253-3648, before collecting sample.	Blood must be drawn directly into a blue top vacutainer or syringe containing premeasured 3.8% sodium citrate or 3.2% citrate.	Whole blood MUST be maintained at room temperature, do not refrigerate.
<p>Measures dynamics of fibrin formation, stabilization and lysis  Citrate whole blood must be in COAGULATION LAB within 15 min of blood draw. DO NOT CENTRIFUGE OR REFRIGERATE whole blood sample. Call 607-253-3648 to alert the lab that test is coming.</p>							
Equine Vaccine Titer Plan	329.50 (+ referral fees; see comment)	Multiple Sections	M - F		Serum (separated); provide at least 0.5 ml serum per test requested.	Red top blood collection tube	Refrigerate. Ship overnight in insulated container with ice packs
<p>This plan includes Equine Herpesvirus-1 SN, Equine Herpesvirus-4 SN, Equine Influenza Virus HAI, Equine Rhinitis A Virus SN, Equine Rhinitis B Virus SN, Lyme Disease, Equine Multiplex, Potomac Horse Fever IFA, Eastern Encephalitis HI, Western Encephalitis VN, Rabies Titer, Streptococcus equi ELISA, WNV IgG/IgM Capture ELISA  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 in this plan that is sent to Referral Labs are: Eastern Encephalitis HI, Western Encephalitis VN, Rabies Titer, Streptococcus equi ELISA</p>							
Equine Wellness, Newborn Foal (0-48 hours)	105.00	Clinical Pathology	M-F	1-2 days	1) EDTA blood, 2) Separated serum or heparinized plasma, 3) 2 blood smears	1) Purple top tube; 2) red top or green top tube; 3) frosted end slides	1) Refrigerate. Ship in insulated container with cold packs; 2) Do not refrigerate slides. Ship at room temperature.
<p>Tests included in this panel are: Fibrinogen (heat-precipitated); Hemogram, routine (CBC); Large Animal Chemistry Panel  To perform all tests included in this panel, all samples listed must be submitted</p>							
Estrone Sulfate Equine only	29.00	Endocrinology	M	1-8 days	1 mL serum	plastic or glass tube	Refrigerate
<p>Collect serum at least 100 days after breeding. For more information, see Appendix C</p>							
Ethylene Glycol	55.00 /sample	Toxicology	M-F	2 days	1) 10 mL heparin whole blood; 2) 10 mL EDTA whole blood; 3) urine; 4) food materials; 5) stomach contents	1,2) Heparinized or EDTA tube, no gel clot3-5) sterile, leak-proof container	1-5) Refrigerate w/ cool pack
<p>Special request only, contact Lab</p>							
Fecal Flotation	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.
<p>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.  <b>Samples from individual animals are preferred. For best results submit fresh/refrigerated samples within seven days of collection.</b> 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.</p>							

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-081-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
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 over night 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
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
Folate, Folic Acid Avoid hemolysis and excessive exposure to direct light; see Appendix C	27.00	Endocrinology	Tu	1-8 days	1 mL serum; avoid EDTA plasma	plastic or glass tube	Refrigerate
Formalin-fixed tissue extraction surcharge (Molecular Diagnostics) Surcharge added to fixed tissues due to the extra labor and materials needed for the nucleic acid extraction procedure.	20.00	Molecular Diagnostics	M-F		Formalin-fixed tissues		Room temp
Free-T4 by dialysis baseline (FT4d) For more information, see Appendix C	42.00	Endocrinology	M, Th	1-5 days	1.5 mL serum	plastic or glass tube	Refrigerate
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

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Fungal Culture	47.00 /sample	Bacteriology	M-F	28+ days	1)Nails, skin scrapings or 10-12 hairs from border of lesion; combings from asymptomatic cats (dermatophytes); 2)Fresh tissue or body fluids (systemic fungi/yeast); 3)Ear (yeast); 4) Swab of lesion, tissue, fluid or ear	1) DRY sterile sealed container (e.g. closed urine cup or envelope); 2) Fluid or tissue in Sterile, sealed container (e.g. red top blood collection tube); 4) Swab in Amies transport media**	1) Not required; 2) Refrigerate
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.							
Fungal ID	47.00 /isolate	Bacteriology	M-F	28+ days	Fungal isolate (pure culture)	Agar slant or plate (sealed)	Refrigerate
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.							
Fungal KOH Fluorescent Stain	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
For the direct microscopic examination for yeast and fungi. *May qualify for New York State contract pricing . Swabs are not acceptable							
Fungal Serology Panel	64.00	Bacteriology	M, W, F	3-5 days	Serum	Red top blood collection tube or sealed sterile container	1-2) Refrigerate
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).							
Fungal Serology: Aspergillus Antibody	16.00 /sample	Bacteriology	M, W, F	3-5 days	Serum	Red top blood collection tube	Refrigerate. Ship in insulated container with ice pack.
For the detection of Aspergillus antibody in serum by AGID. Test is also part of the Fungal Serology Panel.							
Fungal Serology: Blastomyces Antibody	16.00 /sample	Bacteriology	M, W, F	3-5 days	Serum	Red top blood collection tube	Refrigerate. Ship in insulated container with ice pack.
For the detection of Blastomyces antibody in serum by AGID. Test is also part of the Fungal Serology Panel.							
Fungal Serology: Coccidioides Antibody	16.00 /sample	Bacteriology	M, W, F	3-5 days	Serum	Red top blood collection tube	Refrigerate
For the detection of Coccidioides antibody in serum by AGID. Test is also part of the Fungal Serology Panel.							
Fungal Serology: Cryptococcus Antigen	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
For the detection of antigen to Cryptococcus spp. in serum. Test is also part of the Fungal Serology Panel.							
Fungal Serology: Histoplasma Antibody	16.00 /sample	Bacteriology	M, W, F	3-5 days	Serum	Red top blood collection tube	Refrigerate
For the detection of Histoplasma antibody in serum by AGID. Test is also part of the Fungal Serology Panel.							
Fungal Susceptibility	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
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.							

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
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.
Hemogram (CBC), Automated (Mammalian)	18.50	Clinical Pathology	M-Sa	1-2 days	1) EDTA blood (> 1/2 full) AND 2) 2 dry (unfixed, unstained) blood smears	1) lavender top tube; 2) frosted-end slides	1) Refrigerate blood; ship in insulated container with freezer pack for next day delivery. Hold slides at room temperature; protect from chilling/coolant by insulating separately during shipment.

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>

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
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.
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.							
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
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 <a href="https://ahdc.vet.cornell.edu/Sects/ClinPath/sample/test/hema.cfm#Bloodsmear">https://ahdc.vet.cornell.edu/Sects/ClinPath/sample/test/hema.cfm#Bloodsmear</a> Flags for Clinical Pathologist Review of CBCs							
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
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.							
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
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.							
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	
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.							

## 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)	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
<p>Microscopic examination of formalin fixed, paraffin embedded tissue slides with hematoxylin and eosin staining. Additional special stains, including up to two immuno-histochemistry (IHC) stains, will be added if deemed necessary by the pathologist. Additional IHC stains may be requested for an additional fee.</p> <p>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:</p> <p>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)</p> <p>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)</p> <p>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)</p> <p>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)</p>							
Histopathology, Slide Review (1-2 slides)	55.00	Anatomic Pathology	M-F	3 days	1 to 2 Slides	Slide mailer	
1-2 slides Contact Path Dept (607-253-3312)							
Histopathology, Slide Review (3+ slides)		Anatomic Pathology	M-F	3 days	3 or more slides	Slide mailer	
3 or more slides Contact Path Dept (607-253-3312)							
Horse Cytokine 5-plex Assay	40.00 /sample; (discount for >19 samples)	Serology	M, Th	Dependent up	Serum, colostrum, CSF, other body fluids, cell culture supernatant	red top blood collection tube	Refrigerate
The Cytokine 5-plex Assay is based on fluorescent bead technology that allows the simultaneous measurement of five equine cytokines (IL-4, IL-10, IL-17, IFN-g, IFN-a), in a single sample Please contact the Serology/Immunology laboratory (607-253-3678) before a larger sample submission is planned to provide us with approximate sample numbers and to ensure the timely measurement of your samples. For 20 or more samples received together, the cost is \$12/sample.							
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, Colostrum	36.00	Clinical Pathology	M-Sa	1-2 days	1 ml	Red top (non-anticoagulant) tube	Refrigerate
IgG by turbidometric immunoassay (TIA)							

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-081-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
Immunoglobulin G, Equine - TIA  Turbidometric Immunoassay test for IgG in serum For test interpretation, refer to eclinpath.com	30.00	Clinical Pathology	M-Sa	1-2 days	500 ul separated serum	plain glass or plastic tube	Refrigerate
Influenza Virus Matrix PCR  This PCR assay will detect most if not all influenza virus types currently circulating in most species, including 2009 H1N1 and the 2015 Canine H3N8. This assay does not specifically identify the influenza H and N types. That testing can potentially be requested on positive samples if unusual outbreaks or cross-species transmission is suspected. Submit swabs in sterile, sealed vials with several drops of saline added, to prevent desiccation. <b>Bacterial transport media are not appropriate for PCR assays.</b> If culture is desired, submit a separate swab in an acceptable bacterial transport media. Cotton, plastic, wood-handled, and Dacron and other synthetic swabs are all acceptable for PCR-based assays. Calcium alginate swabs should be avoided. All canine and feline samples testing positive for influenza A matrix will be further tested to determine subtype. Subtyping will be done automatically and at no additional charge. Results will be available within 3-5 days following release of the original result on an addended report. *May qualify for New York State contract pricing. This service is performed pursuant to an agreement with Roche Molecular Systems.	36.75	Molecular Diagnostics	M-F as needed	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 - Leptin  Equine only For more information, see Equine Metabolic Syndrome Tests.	42.00	Endocrinology	M, W, Th	3-9 days	serum or EDTA plasma	Red top and lavender topped blood collection tube	Refrigerate
Insulin baseline (Equine)  Avoid hemolysis and lipemia. For more information, see Appendix C	19.00	Endocrinology	M, W, Th	2-6 days	1.5 mL serum or EDTA plasma; do not send sample on cells	plastic or glass tube	Refrigerate
Insulin: Oral Sugar Test Equine only Equine only: For more information, please see Equine Metabolic Syndrome (EMS) Testing	19.00	Endocrinology	M-F	2 days	serum or EDTA plasma; 0.5 mL each sample	plastic or glass	Refrigerate
Insulin: Post Oral Sugar Test Equine only For more information, please see Equine Metabolic Syndrome (EMS) Testing	18.00	Endocrinology	M-F	2 days	0.5 ml serum or EDTA plasma;	plastic or glass	Refrigerate
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

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
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
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 <a href="https://ahdc.vet.cornell.edu/sects/Paras/tests/knotts.cfm">https://ahdc.vet.cornell.edu/sects/Paras/tests/knotts.cfm</a>	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.
Lawsonia intracellularis qPCR This qPCR assay detects the aspartate ammonia lyase (aspA) gene of <i>Lawsonia intracellularis</i> , the causative agent of proliferative enteropathy (also known as Ileitis), in any host species. Due to the intracellular growth of this bacterium, it cannot be cultured for diagnostic purposes. Based on experimental studies in foals, detection of fecal shedding by PCR is expected to occur at 12-18 days after infection, which is approximately the same time frame as onset of clinical signs; shedding may last for 7-21 days (Pusterla et al. J Vet Intern Med 2010). In pigs, shedding starts one week after infection (just after the onset of clinical signs) and may last intermittently for up to 12 weeks; pigs given the modified-live vaccine may be positive by PCR for up to 9 weeks (Guedes et al. Vet Microbiol 2003). This service is performed pursuant to an agreement with Roche Molecular Systems.	36.75	Molecular Diagnostics	M-F as needed	2-3 days	Feces, illum, or tonsillar tissue	Leak-proof container	Refrigerate. Ship in insulated container with ice packs
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 <a href="https://www.fda.gov/MedicalDevices/Safety/alertsandNotices/ucm558733.htm">https://www.fda.gov/MedicalDevices/Safety/alertsandNotices/ucm558733.htm</a>	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
Leptin baseline Equine only For more information, see Equine Metabolic Syndrome Tests.	25.00	Endocrinology	M, W	3-9 days	serum or EDTA plasma	Red top or lavender blood collection tube	Refrigerate

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Leptospira MAT, 5 standard serovars	16.00 /5 serovars	Bacteriology	M, W, F	2-3 days	2.0 ml serum	Red top blood collection tube	Refrigerate. Ship overnight in an insulated container with ice packs
<p>For the detection of antibodies to Leptospira interrogans serovars Pomona, Hardjo, Icterohemorrhagiae/copenhageni, Grippotyphosa, and Canicola by serum microagglutination. Please indicate any previous testing at the AHDC for accurate test result interpretations. Testing paired samples at an interval between 2-6 weeks between blood draws has more diagnostic significance than relying on the results from a single sample. See also Leptospira MAT, 7 serovars for additional serovar options that may be relevant. The first 5 serovars may qualify for New York State contract pricing. Refer to Leptospira Microagglutination Testing at the AHDC for more information.</p>							
Leptospira MAT, 7 serovars	30.00 /7 serovars	Bacteriology	M, W, F	2-3 days	2.0 ml serum	Red top blood collection tube	Refrigerate. Ship overnight in an insulated container with ice packs
<p>For the detection of antibodies to Leptospira interrogans serovars Pomona, Hardjo, Icterohemorrhagiae/copenhageni, Grippotyphosa, Canicola, Autumnalis and Bratislava by serum microagglutination. This test adds Leptospira interrogans serovars Bratislava and Autumnalis to the Leptospira MAT, standard 5 serovars. These two serovars are much less likely to be found in the United States, however, the AHDC has identified clinical samples with strongly elevated titers to one or both of these serovars in the absence of strong reactions to the other five. Testing for these two serovars may therefore be of diagnostic value. Please indicate any previous testing at the AHDC for accurate test result interpretations. Testing paired samples at an interval between 2-6 weeks between blood draws has more diagnostic significance than relying on the results from a single sample. Refer to Leptospira Microagglutination Testing</p>							
Leptospira real-time PCR	36.75 per specimen tested	Molecular Diagnostics	M-F	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
<p>This assay targets the lipL32 gene encoding the major surface antigen of pathogenic Leptospira species.</p>							
Lipase	24.00 /sample	Clinical Pathology	M-Sa	1-2 days	1) 1 mL separated serum or heparinized plasma; 2) fluid	Red top (non-anticoagulant) or green top (heparin) tube	Refrigerate. Ship overnight in insulated container with freezer packs.
<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>							
Listeria Culture	22.00 /sample	Bacteriology	M-F	5-7 days	1) Encephalitic: brain stem, cerebellum; 2) Visceral: liver, spleen, kidney; 3) Swab of 1 pr 2; 4) Silage	1-2) Sealed separate sterile containers; 3) Amies transport media (swab); 4) Sealed sterile container	1-3) Refrigerate
<p>For the culture of Listeria monocytogenes ONLY. Neurologic listeriosis is not typically associated with a bacteremia. CNS infection is believed to and has been shown to result from localized entry of the bacteria via defects in the oral mucosa, with initial entry into the CNS via the trigeminal nerve. A systemic or bacteremic phase is not usually associated with this process. CSF or brain would be required to identify neuroinfection in most cases. Blood can be a good sample in monogastrics and neonates with septicemia. Consider submission of inoculated Blood Culture media and requesting "Blood culture, aerobic" for testing a clinically ill live animal. Placenta and fetal tissues are appropriate specimens in abortions cases. Our laboratory does not provide food safety testing for listeria on milk or other foods. Samples submitted for testing should be related to clinical investigations. Antimicrobial susceptibilities are not included in the testing fee. Test is also part of Ruminant CNS Panel. Rabies testing should also be submitted to the NYS DOH Rabies laboratory for neurologic submissions. Preliminary results will be provided one day after sample processing begins.</p>							
Lyme Disease, Equine Multiplex Assay	40.00	Serology	M-F	1-3 days	2 mL serum (and 1 mL CSF for neurological cases)	red top blood collection tube	Refrigerate
<p>The multiplex test is based on fluorescent bead technology that allows the simultaneous measurement of antibodies to different B. burgdorferi antigens in a single sample. Indicate on the accession form if and when the horse has been vaccinated and which vaccine was used. In cases for which CSF has been submitted in addition to serum, both samples will be tested and fees will accrue on each. Samples from treated horses can be paired with the previous sample if requested. The fee will also be applied to the paired sample. Please refer to the Lyme Disease Multiplex Testing for Horses or Lyme Multiplex Questions and Answers for more information.</p>							
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.
<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>							
Magnesium, urine	17.00	Clinical Pathology	M-Sa	1-2 days	1 mL urine	plain glass or plastic tube	Refrigerate
Mare/Foal Compatibility	40.00	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) purple top (EDTA) tube AND 2) red top (no anticoagulant) tube	Refrigerate. Ship overnight in insulated container with freezer packs.
<p>Crossmatch Do not freeze. For test interpretation, refer to eclinpath.com</p>							

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VSS-WEB-081-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
Mare/Stallion Compatibility  Crossmatch Do not freeze. For test interpretation, refer to eclinpath.com See Test Info and Protocols for more information	40.00	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) purple top (EDTA) tube AND 2) red top (no anticoagulant) tube	Refrigerate. Ship overnight in insulated container with freezer packs.
Mass Spectrometry Screen  General screening for unknown toxins. Special Request Only. Please contact the lab at 607-253-3900 before submission. For additional guidance on Toxicology Submissions <a href="https://ahdc.vet.cornell.edu/docs/Toxicology_Submissions_and_Analytica_Screens.pdf">https://ahdc.vet.cornell.edu/docs/Toxicology_Submissions_and_Analytica_Screens.pdf</a>	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.
Mass Spectroscopy Confirmation  Freezer pack whole blood; SPECIAL REQUEST - PLEASE CONTACT LAB.	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
Mercury  (Flameless Atomic Absorption) Cannot analyze in plasma or serum - Need whole blood. Do not use heparin separator tubes (gel tubes).	55.00	Toxicology	M-F	3 days	1) 2g tissue; 2) 100g feed; 3) 2 mL heparin whole blood	1) sterile container; 2) any container; 3) Heparinized or EDTA tube	1, 3) Refrigerate; 2) none
Microscopic Feed Analysis	40.00 /hr	Toxicology	M-F	3 weeks	100g feed	any container	None
Mineral Panel (Tissue, Feed) Full screen includes Ca, P, Mg, Na, K, Cu, Fe, Mn, Zn, and Mo analyzed by ICP-AES. 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. 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.	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

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Mycoplasma 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) 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
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.							
Mycoplasma felis PCR	36.75	Molecular Diagnostics	M-F	3 -5 days	1. Nasal swab OR 2. tracheal wash, broncho-alveolar lavage 3. Respiratory tissue or conjunctiva 4. Ocular swab	Securely closed sterile sealed tube with viral transport media or a few drops of saline. Do not use bacterial transport media culturettes.	Refrigerate. Ship over night to lab in insulated container with frozen ice packs.
Detection of M. felis in animals with respiratory disease. DO NOT place swabs in bacterial transport media. Swabs should be sent in viral transport media or in a sterile tube with 3-4 drops of sterile saline added.							
Necropsy After Hours Fee	50.00	Anatomic Pathology	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.				
Necropsy, 41 to 100 lbs	310.00 in state; \$450 out of state. Additional STAT fee may apply. Contact lab for more information	Anatomic Pathology	M-F	2-12 days	carcass		
Includes large dogs, small ruminants, equine abortions. New York State livestock owners, please see comment. \$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.							
Necropsy, greater than 500 lbs	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		
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.							
Nematode Larval Culture	55.00	Parasitology	M-F	14+ days	15g fresh fecal sample	wide mouth leak-proof	Do not refrigerate sample
Requires 14-day lag time from submission; Fecal Quantitative test done first to determine need							
Neorickettsia risticii PCR	36.75	Molecular Diagnostics	M-F as needed	2-3 days	1) EDTA blood, buffy coat (min. 2 mL)	unbreakable, leak-proof container	Refrigerate
formally Ehrlichia risticii PCR The sample required for testing is EDTA whole blood.  This assay does not perform appropriately for testing feces or bowel.							
Neospora IFA	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.
Indirect Fluorescent antibody test Acceptable species: Canine and Bovine. This test is also done on a variety of other species, however it is not validated and a comment indicating such will be added to the report. Other species tested: Camelid, Ovine, Moose, Deer, Caprine, Equine, Grizzly bears, Giant Panda, and most other exotic serum. Unacceptable species: Feline and Red Panda Please contact lab with any questions regarding appropriate species.							

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
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 Primate Hepacivirus PCR	36.75	Virology	as needed	5-7 days	serum; whole blood; liver	blood tube or unbrakable, leak proof container	Refrigerate. ship for next day delivery in insulated container with ice packs
<p>Real time PCR to detect non-primate hepacivirus            This test has not been validated and is in the development phase. For questions, contact Dr. Ed Dubovi at 607-253-3900The NPHV PCR test is based on the most up to date scientific knowledge of nucleic acid sequences from currently circulating viruses. A lack of test sensitivity can be due to factors such as virus mutation, possible latent stage infection or early acute infections where the viral load is below the detectable limit of the test. Therefore, we recommend follow up testing in 2-3 months after the initial testing.</p>							
Non-Esterified Fatty Acid (NEFA)	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.
<p>NEFA            Test reference ranges can be found at Clinpath Reference Intervals.            For test interpretation, refer to eclinpath.com</p>							
Occult Blood	16.00	Clinical Pathology	M-Sa	1-3 days	feces	sterile container	Refrigerate
<p>(Coprology)            Do not allow coolant to come in contact with specimen; ship Overnight</p>							
Osmolality	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
<p>Do not allow coolant to come in contact with specimen</p>							
Packed Cell Volume	7.00	Clinical Pathology	M-Sa	1-2 days	EDTA blood (> 1/2 full)	lavender top tube	Refrigerate
<p>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</p>							
Parasite Identification	28.00	Parasitology	M-F	1-7 days	whole parasites including worms or arthropods; punch biopsy, skin or conjunctival snips, fresh tissue for worm identification; impression smears; stained tissue section slides; enviromental samples	plastic leak proof container, such as blood tube, appropriate for sample. Submit fresh, in 70% ETOH or 10% formalin, depending upon the sample.	Refrigerate if not fixed
<p>Endo- and ecto- parasites            All ticks submitted for PCR (Lyme, Anaplasma, Ehrlichia) must be identified prior to testing. A biopsy is examined directly or undergoes pepsin digestion to recover nematodes. Gastrointestinal contents and other tissues such as lung are examined and processed as needed to collect and identify parasites present. Intestinal smears are made from fresh, non-preserved intestinal sections and are used to identify non-patent coccidian infections postmortem Other samples that can be submitted for parasite identification include: Biopsies from tissues that may contain parasites; Necropsy tissues, such as sections of organs and intestines with contents; Fluids such as tracheal and cloacal washes, duodenal aspirates, urine, blood; Histological sections on slides; Free living worms or arthropods found on animals, in residences, in feed samples and environmental samples such as soil and composted material.</p>							
Pericardial Fluid Cytology	50.00	Clinical Pathology	M - F	1-2 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.
<p>Report includes - Specimen type and site (provided by submitter), Volume, Color, Turbidity, Total Protein, Nucleated cell count, RBC count, Smear type, Smear description, Smear Interpretation            With pericardial fluid samples, please also submit 2-3 freshly prepared smears of the fluid and specify smear type, i.e. direct or sediment, on the smears and on the cytology submission form. Do not allow coolant to come in contact with specimen; ship overnight. STAT service available for same day results (extra charges apply). For test interpretation, refer to eclinpath.com. For additional information see Cytology Testing</p>							

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

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## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Peritoneal Fluid Cytology	50.00	Clinical Pathology	M - F	1-2 days	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
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							
PFA100 Closure Time	42.00	Comparative Coagulation	M-F	0-1 day	Citrate whole blood (Must be assayed within 2 hours of collection)	Blue top vacutainer, or citrate blood drawn via syringe with sodium citrate (3.8% or 3.2% citrate)	Room temperature
Evaluation of platelet plug formation under conditions of high shear. This test allows for rapid evaluation of platelet function in small volume samples of citrated whole blood. Test will be available only to clinics that can deliver samples to the AHDC within 2 hours. Additional information at PFA100 Closure Time Expanded Information Sheet.							
Phenobarbital	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
Phenobarbital is used for treatment for forms of epilepsy. This test measures the amount of phenobarbital in the sample							
Phosphate (Phosphorus)	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.
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							
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.
Plasminogen	44.00	Comparative Coagulation	M-F	same day	1 mL separated citrate plasma	plastic or siliconized glass tube in styrofoam box	Refrigerate/ship on cold pack
Ship Overnight; for additional info on Submission Guidelines, or see Comp Coag web page							
Platelet Aggregation	97.00	Comparative Coagulation	---	---	requires special arrangement with lab		
Combination of individual tests Special arrangement - contact laboratory to schedule testing							
Platelet Flow Cytometry-1	84.00	Comparative Coagulation	Requires prior arrangement	2 - 5 days	1.5 mL EDTA blood, Citrate blood	EDTA or citrate collection tube	Do Not Freeze
-once/week Cytometric screen of platelet function Pre-approval by direct phone consultation with the coagulation lab is required to coordinate sample submission							
Platelet Flow Cytometry-2	122.00	Comparative Coagulation		2 - 5 days	3.0 mL citrate blood or platelet concentrate	On-site collection (citrate blood)	Do Not Freeze
Extended Platelet Cytometry Panel Platelet flow 2 includes activation and labeling reactions to define multiple parameters of platelet function, reserved for samples collected on-site (at AHDC), or evaluation of platelet concentrates for transfusion							
Platelet Function	52.00	Comparative Coagulation		2-3 days	requires referral appointment		
Combination of individual tests Special arrangement - contact laboratory to schedule testing							

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Pleural Fluid Cytology	50.00	Clinical Pathology	M - F	1 business day	1) Pleural fluid in EDTA AND 2) Smears (at least 2-3 unstained smears preferred); 3) Also submit a red-top tube if culture is anticipated.	1) Lavender-top tube; (+/- red-top tube); 2) Frosted-end slides	Refrigerate fluids only; ship in insulated container with freezer pack for next day delivery. Hold smears at room temperature; protect from chilling/coolant by insulating separately during shipment.
Report includes - Specimen type and site (provided by submitter), Volume, Color, Turbidity, Total Protein, Nucleated cell count, RBC count, Smear type, Smear description, Smear Interpretation With pleural fluid samples, please also submit 2-3 freshly prepared smears of the fluid and specify smear type, i.e. direct or sediment, on the smears and on the cytology submission form. Do not allow coolant to come in contact with specimen; ship overnight. STAT service available for same day results (extra charges apply). For additional information see Cytology Testing							
PMSG: Pregnant Mare Serum Gonadotropin	26.00	Endocrinology	1time/week	7-9 days	1 ml serum or plasma	plastic or glass tube	Refrigerate. Ship w/ cold pack
Pregnant Mare Serum Gonadotropin. Equine only. Horses only - samples should be taken 50-100 days post-breeding							
Potassium	8.50 /sample (blood, fluid)	Clinical Pathology	M-Sa	1-2 days	1) 1 mL separated serum or heparinized plasma; 2) fluid	plain glass or plastic tube	Refrigerate
See Test Info and Protocols for more information							
Potassium, urine	17.00	Clinical Pathology	M-Sa	1-2 days	1 mL urine	plain glass or plastic tube	Refrigerate
Potomac Horse Fever (PHF) IFA	20.00 /sample	Virology	Tu-Th	3-4 days	1 ml serum	red top blood collection tube	It is recommended to ship samples with an ice pack.
Indirect fluorescent antibody (Neorickettsia risticii) 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.							
PreAnesthesia Panel, Large Animal	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.
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							
Prekallikrein Screen	14.50	Comparative Coagulation	M-F	same day	citrate plasma	plastic or siliconized glass tube in styrofoam box	Refrigerate/ship on cold pack
Ship Overnight; requires aPTT on same sample; For additional info on Submission Guidelines, or see Comp Coag web page							
Pre-Purchase Drug Screen	140.00	Toxicology	M-F	2-3 days	1) 8-10 ml heparinized (preferred) or EDTA plasma or serum; OR 2) 16-20 ml heparinized (preferred) or EDTA whole blood; OR 3) 30 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)
Identification of acidic and basic drugs (see Test Interpretations tab for list). Quantitation is not currently available. Gel activator clot tubes/tiger top (red/gray) tubes not recommended. Keep cold in shipment. If requesting STAT (same day processing), please provide shipment tracking number to Lab.							
Progesterone - RIA - Equine	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.
Progesterone baseline	14.50	Endocrinology	see comment	1-3 days	1 - 1.5 mL serum; separated within 2 hrs after blood collection; avoid SST tubes	plastic or glass tube	Refrigerate
Dogs and llamas tested daily M-F; other species, M, W, F. For more information, see Endocrinology Testing and Protocols							
Protein C	38.75	Comparative Coagulation	M-F	same day	1 mL separated citrate plasma	plastic or siliconized glass tube in styrofoam box	Refrigerate/ship on cold pack
Protein C Ship Overnight; For additional info on submitting samples see Submission Guidelines. Also see Protein C FAQs							

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VSS-WEB-081-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
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
RBE - Brain Extraction 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.	51.00	Anatomic Pathology	M-Sa	24 hrs, follow head or whole body		leak-proof container	Refrigerate, do not freeze
Red Blood Cell (RBC) Count, Total Do not allow coolant to come in contact with specimen; Ship Overnight. For test interpretation, refer to eclinpath.com Test reference ranges can be found at Clinpath Reference Intervals.	7.00	Clinical Pathology	M-Sa	1-2 days	EDTA blood (> 1/2 full)	lavender top tube	Refrigerate
Red Blood Cell (RBC), Parasites 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	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
Ref: Aldosterone Assay to quantitate aldosterone levels in EDTA plasma or serum. Can test a single sample for baseline values or can provide pre and post ACTH samples as ACT stimulation test. For All Species: Pre or post samples can be serum, plasma or one of each. Send via overnight courier. Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab.	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)
Ref: Allergy Testing, Equine The AHDC is no longer providing referrals for this testing. The testing labs offer customizable testing which is best selected by the clinician in direct contact with the testing laboratory. Please see the referral information tabs for the laboratory to which we had previously referred testing.	0.00 (+ referral fee; Referral see comment)						
Ref: Amino Acids Complete amino acid analysis in plasma. Reference ranges available for canine, feline and equine. Send via overnight courier on dry ice; 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	168.00 (+ referral fee; see comment)	Referral	W	7-12 days	2 mL Heparinized Plasma or 2mL Urine	Insulated container, If glass tube is used, protect from breakage with secondary container or wrap.	Dry ice
Ref: Aspergillus Panel This panel includes Aspergillus Antibody Elisa, Electrophoresis to Quantitate host plasma proteins, and galactomannan assay for a dominant Aspergillus antigen. Send via overnight courier. Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab. Testing performed on Avians and Mammals. Sample should be 5 days old or less at time of testing. Do not collect and ship to AHDC prior to 3 day weekend or other conditions which will not allow delivery to referral lab for testing by 5 days post collection. For test interpretations, please see Testing for Avian Aspergillus	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.
Ref: Babesia Gibsoni Giemsa Smr slides, Exp Evaluation of blood smears for hemoparasites/ hemotropic bacteria. Also known as Hemoparasite exam – Wright Giemsa Stain. <b>Submitter must make blood smear slides. Do not submit EDTA whole blood. Testing can be performed on the following: Amphibian, Avian, Bovine, Canine, Caprine, Cervid, Equine, Exotic, Feline, Ovine, Porcine, Reptile, and Rodents. Send via overnight courier. Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab.</b>	19.00 (+ referral fee; see comment)	Referral	Monday-Friday	2 days	1-2 Unstained, air-dried blood smear slides made from EDTA Whole Blood	slide mailer	Hold at room temperature. Ship at room temperature. Protect from cold temperatures with insulation.

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## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Ref: Babesia PCR	60.00 (+ referral fee; see comment)	Referral	Tues; Thurs	5-7 days	2ml EDTA Whole Blood	Purple Top Collection Container	Refrigerate. Ship in insulated container with freezer packs to arrive next day.
This is a polymerase chain reaction assay which amplifies and detects target nucleic acid sequences of the Babesia genus. This laboratory performs nucleic acid sequencing for all positive samples, verifying detection and providing identification to the species and occasionally strain level. Send via overnight courier. Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab. This test can be performed on all species.							
Ref: Bartonella PCR	60.00 (+ referral fee; see comment)	Referral	Tues, Thurs	5-7 days	2 mL EDTA whole blood	Purple Top blood Collection Container	Refrigerate, send via overnight delivery; insulated container with freezer pack(s)
This is a polymerase chain reaction assay which amplifies and detects target nucleic acid sequences of the Bartonella genus. This laboratory performs nucleic acid sequencing for all positive samples, verifying detection and providing identification to the species and occasionally strain level. Sample required is EDTA whole blood. This test can be performed on all species. Send via overnight courier. Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab.							
Ref: Botulism	0.00 Cost cannot be estimated prior to consultation with laboratory (+ referral fee; see comment)	Referral			Stomach/rumen contents, GI contents, feces, spoiled forages, parts of dead animals found in suspect feed, and soil from underneath affected areas.	Samples should be sent in whirlpack bags or other suitable small leak proof container. Put each intestinal sample (contents only, please do not send whole intestines or ligated intestines) in a separate Whirlpak bag and clearly label with ID with a waterproof marker such as a Sharpie.	Refrigerate for immediate shipment or store frozen; Ship for next day delivery in insulated container with freezer pack(s)
Real-time PCR assay for the detection of Clostridium botulinum types A, B and C toxin genes in vegetative cells after a culture enrichment step ?Finding C. botulinum organisms or spores in a fecal or GI sample of a horse or cow, or in a feed sample, is strongly supportive of a diagnosis of botulism in animals exhibiting compatible clinical signs. Please see <a href="http://www.vet.upenn.edu/docs/default-source/new-bolton-center-hospital/NBC-Diagnostic-Labs/instructions-for-submitting-samples-9-1-16.pdf?sfvrsn=6">http://www.vet.upenn.edu/docs/default-source/new-bolton-center-hospital/NBC-Diagnostic-Labs/instructions-for-submitting-samples-9-1-16.pdf?sfvrsn=6</a> for more information.							
Ref: Brucella abortus/suis Fluorescent Polarization Assay	33.60	Referral	Mon, Thurs	5-7 days	2mL Serum	Red top blood collection tube.	Refrigerate; ship via overnight delivery in insulated container with freezer packs.
This is an antibody detection assay that is used primarily for regulatory diagnostic investigations or for export purposes. It detects antibodies against Brucella abortus or Brucella suis. Test can be performed on large animals. Send via overnight courier. Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab.							
Ref: Caseous lymphadenitis	17.50 (+ referral fee; see comment)	Referral	M-Th	5-6 days	1 mL serum	Red top blood collection tube	Refrigerate. Ship in insulated container with ice pack.
Serum hemagglutination inhibition assay to detect antibodies to Corynebacterium pseudotuberculosis in horses, camelids, sheep and goats. Send via overnight courier. Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab. C. pseudotuberculosis SHI titers less than 1:8 are not considered significant, and probably represent cross reactions with common environmental organisms. Titers > 1:256 have a high association with internal abscess formation.							
Ref: Cholinesterase(brain)	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.
This assay tests for enzyme activity in a brain sample. Any factor that interferes with enzyme activity will affect the outcome of the results. Specimen should be as fresh as possible. Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab.							
Ref: Cyclosporine	66.00 (+ referral fee; see comment)	Referral	W, F	3-5 business	1 mL EDTA whole blood	Lavender top blood collection tube	Refrigerate; DO NOT FREEZE. Ship for next day delivery in insulated container with freezer pack(s)
Test to detect cyclosporin levels. This test can be performed on Bovine, Canine, Equine, Feline, Ferrets, Fruit Bats, Ovine, Porcine, Primate samples only. Send via overnight courier. Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab.							

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Ref: Digoxin  Checking Digoxin levels in the blood Send via overnight courier Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab. Do not store in rubber topped tubes as digoxin will bind to the rubber. Fasting is recommended, but not required.	60.00 (+ referral fee; see comment)	Referral	Run when received	2-4 business	1 mL serum	red top blood collection tube; GLASS vial	Refrigerate. Ship in insulated container with ice pack.
Ref: Dourine CF  This is a complement fixation test for detecting antibodies against Trypanosoma equiperdum, the agent of Dourine. It is routinely used for regulatory and international trade purposes. This test is specific to Equidae. 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.	20.50	Referral	M-F	5 Business D:	2ml Serum	Red top blood collection tube	Refrigerate, ship for next day delivery in insulated container with freezer pack(s)
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: Encephalitis, Eastern, IgM ELISA  This is an ELISA assay to detect IgM antibodies against EEE virus exposure. It should be used for testing clinically ill equines only. This test can only be performed on Equine samples. 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 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.	22.00 (+ referral fee; see comment)	Referral	2-3 days a week, as needed	3-7 Business	Serum	Red Top blood collection tube	Refrigerate. Ship for next day delivery in insulated container with freezer pack(s).
Ref: Encephalitis, Western CF  Complement Fixation Assay - Antibody detection This test is primarily for export testing purposes. 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	21.50 (+ referral fee; see comment)	Referral	W	7-10	2 mL serum	Insulated	Cold Pack
Ref: Encephalitis, Western VN  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	11.00 (+ referral fee; see comment)	Referral	M, Th	3-5 days	1 mL serum	Red top tube	Refrigerate
Ref: EPM CSF:Serum Ratio  EPM SAG 2,3,4 ELISA to detect and compare antibodies against Sarcocystis neurona in both CSF and serum 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 see the fact sheet on test choices for EPM for additional information.	132.00 (+ referral fee; see comment)	Referral	M-F	2 days	1 mL serum and 1 mL CSF	insulated	Ice Packs
Ref: EPM SAG 2,3,4 Titer ELISA  ELISA to detect antibodies against multiple surface antigens 2,3 and 4 of Sarcocystis neurona, a causative agent of Equine Protozoal Myeloencephalitis. This test can be performed on 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. See also Ref: EPM CSF:Serum Ratio - REPMSR for use when submitting both serum and CSF. Please see the fact sheet on test choices for EPM for additional information.	82.00 (+ referral fee; see comment)	Referral	M-F	4-5 Business	1 mL serum or 1 mL CSF	Red top blood collection tube for Serum and CSF	Refrigerate. Ship for next day delivery in insulated container with freezer pack(s)
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

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## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Ref: Equine Protozoal Myeloencephalitis IFA  Tests for antibodies against Sarcocystis neurona 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 see the fact sheet on test choices for EPM for additional information.	70.00 (+ referral fee; see comment)	Referral	M-F	5-7 days	2 mL serum or CSF		Refrigerate
Ref: Equine Protozoal Myeloencephalitis WB  Tests for antibodies against Sarcocystis neurona 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 see the fact sheet on test choices for EPM for additional information.	82.00 (+ referral fee; see comment)	Referral	M-F	7-10 days	1 mL serum and/or CSF		Refrigerate
Ref: FISH Fluorescent In-Situ Hybridization  Flourescent 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: Granulosa Cell Panel 1  Panel includes Inhibin, Testosterone and Progesterone Based on recent publications, AHDC strongly recommends using Ref: Granulosa Cell Panel 2 that includes AMH, inhibin and testosterone (see AHDC web site for more details). 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 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	108.00 (+ referral fee; see comment)	Referral	Mon - Fri	7-10 days	2 mL serum	Separated serum in red top tube or other tube without additives	Refrigerate. Ship for next day delivery in insulated container with freezer pack(s)
Ref: Granulosa Cell Panel 2  Panel includes AMH, Inhibin, and Testosterone ?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?.	156.00	Referral	Mon - Fri	7-10 days	3 mL serum	Separated serum in red top tube or other tube without additives.	Refrigerate. Ship for next day delivery in insulated container with freezer pack(s)
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: Keppra/Levetiracetam  Checking Keppra levels in the blood Send via overnight courier Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab. Fasting is recommended, but not required. 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 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. <a href="https://onlinelibrary.wiley.com/doi/full/10.1111/evj.12790">https://onlinelibrary.wiley.com/doi/full/10.1111/evj.12790</a>	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: Lawsonia IPMA  Referral test prices are set by the referral laboratory and may change without notice. a \$30.00 handling fee is added for each accession sent to each referring lab	24.00 (+ referral fee; see comment)	Referral	M-F	7-10 days	1 mL serum		Refrigerate

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Ref: Leishmania PCR Sample Required is EDTA whole blood. Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab	60.00 (+ referral fee; see comment)	Referral	M-F	5-7 days	2 mL EDTA whole blood	Insulated	Refrigerate or ship on cold pack
Ref: Lutenizing Hormone A gonadotropic hormone of the anterior pituitary gland. 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	101.00 (+ referral fee; see comment)	Referral	1x/month	30 days	1 mL serum	Insulated	Refrigerate
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, an \$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: Neospora Hughesi ELISA This is an ELISA test for Neospora hughesi exposure, one of the causes of Equine Protozoal Myelitis in horses. 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	54.00 (+ referral fee; see comment)	Referral	Monday and Thursday	1-2 days	1 ml Serum or CSF	Red top tube	Refrigerate
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 tube	Refrigerate. Ship for next day delivery in insulated container with freezer pack(s)
Ref: Piroplasmosis c-ELISA Panel includes: Babesia Caballi and Babesia(Theileria)equi. This test can be performed only on Equine samples. 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 collection tube	Refrigerate. Ship for next day delivery in insulated container with freezer pack(s)

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Ref: Piroplasmiosis 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: Piroplasmiosis 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: Platelet Surface Assoc. Ab  Test for autoantibody against platelets. Equine and Canine only. Must be cold and tested within 24 hrs of draw. 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	89.50 (+ referral fee; see comment)	Referral	M-F	~3-7 days	2 mL EDTA whole blood	Insulated	Refrigerate
Ref: Polysaccharide Storage, Blood/Hair  This is a PCR (Polymerase Chain Reaction) test to detect a nucleic acid sequence that is a marker of the genetic disease Equine Polysaccharide Storage Myopathy. This test is available for Equine only. If submitting hair, hairs must be plucked with root bulbs attached. Do not collect hair from grooming equipment that may contain hair from different horses. 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.	78.00 (+ referral fee; see comment)	Referral	W	7 - 14 Days	3-7ml EDTA Whole Blood or 20 Hair Roots	Purple Top Collection Container (Blood) Zip lock bag (Hair)	Refrigerate blood, send via overnight delivery; insulated container with freezer pack(s). Hair samples do not need freezer packs and can be shipped ground.
Ref: Quantitative Calculi/Urinary  This test provides an analysis of the crystalline composition of the urolith(urinary stone) Send via overnight courier Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab	38.00 (+ referral fee; see comment)	Referral	M-F	4-6 business	Stone	Baylor Stone Collection Cup	None
Ref: Rabies Titer  This test is not used for export testing. This test provides an endpoint titer. Please see comment above regarding export testing. This test can be performed on all species. Send via overnight courier. Can use heat inactivated serum, must be noted on the form. Cannot use plasma. Sample needs at least 500ul for one run. Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab. The AHDC does not refer Rabies titers for export testing due to requirements of the testing lab. Please contact Kansas State Veterinary Diagnostic Lab directly at 785-532-4483.	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: RBC Surface Antibody  Direct immunofluorescent assay for IgG,IgA,IgM,and C3. Equine and Canine only. Send via overnight courier. Must be tested within 24 hrs of draw. 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.	79.50 (+ referral fee; see comment)	Referral	M-Th	~2-3 days	2 - 3 mL EDTA whole blood	Insulated	Refrigerate
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: Streptococcus equi ELISA  Elisa for detection of antibodies against the SeM protein of S. equi 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	M-F	~4-7 days	1-2 mL serum	Sterile leak-proof container	Refrigerate
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

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Ref: Tick Panel - PCR  PCR Panel includes: PCR testing for known pathogens in six genera: Babesia, Bartonella, Anaplasma, Ehrlichia, Rickettsia, and hemotropic Mycoplasma. All positive PCR results are verified by performing sequencing analysis which also takes identification to the species and sometimes strain level. This test can be performed on most species. Call lab with exotic animals. Send via overnight courier. Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab.	150.00 (+ referral fee; see comment)	Referral	Batched weekly	9-12 business	2 mL EDTA whole blood	EDTA blood Tube	Refrigerate, ship for next day delivery in insulated container with freezer pack(s)
Ref: Troponin  A complex of muscle proteins which, when combined with Ca <sup>2+</sup> , influence tropomyosin to initiate contraction. Send pre and post exercise samples on dry ice by overnight courier. Remove serum or plasma from cells within 2 hours! Referral test fee is set by the referring lab and may change without notice; also, a \$30.00 handling fee is added for each accession sent to each referring lab	104.00 (+ referral fee; see comment)	Referral	M, F	1-3 days	1 mL serum or hep plasma	Insulated	Dry ice
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)
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.
Reserpine (LC/MS)  Liquid Chromatography/Mass Spectrometry (LC/MS) (increased sensitivity)	165.50 /sample	Toxicology	M-F	1-3 days	1) 10 mL heparin whole blood; or 2) transfer 5 mL heparin plasma to a red top tube	1) Heparinized tube, no gel clot; 2) red top blood collection tube	1-2) Refrigerate w/ cool pack
Rhodococcus equi virulence PCR  PCR Submit swabs in sterile, sealed vials with several drops of saline added, to prevent desiccation. <b>Bacterial transport media are not appropriate for PCR assays.</b> If culture is desired, submit a separate swab in an acceptable bacterial transport media. Cotton, plastic, wood-handled, and Dacron and other synthetic swabs are all acceptable for PCR-based assays. Calcium alginate swabs should be avoided. See Appendix I for service agreement statement	36.75	Molecular Diagnostics	M-F as needed	3 days	1) culture (solid or liquid) or isolate; 2) tracheal wash; 3) tissue (min. 5 g)	1) isolate already in lab/submitted in liquid or solid media; 2, 3) unbreakable, leak-proof container	Refrigerate
Ristocetin Cofactor Activity (vWF R:Co)  Functional assay of vWF-dependent platelet agglutination Ship Overnight; contact Lab. For additional info on Submission Guidelines, or see Comp Coag web page	48.50	Comparative Coagulation	1x/wk	2-7 days	1 mL separated citrate plasma	plastic or siliconized glass tube in styrofoam box	Refrigerate/ship on cold pack

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-081-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
Rivaroxaban  Anti-Xa activity measured in a chromogenic assay configured with a rivaroxaban calibration standard. Samples for determination of peak rivaroxaban anti-Xa activity should be collected 3 hours after oral drug administration. For more information, see Rivaroxaban assay FAQs	45.00	Comparative Coagulation	As required	Same day	0.5 mL Citrated plasma	plastic or siliconized glass tube in styrofoam box	Refrigerate sample. Ship overnight with ice packs in insulated container.
Rotavirus Antigen Detection, Group A Latex agglutination to detect Group A Rotavirus antigen	25.00 /animal	Virology	Varies	3 days	5cc feces	Leakproof container	Freezer Packs
Rotavirus FA-Any Species  Fluorescent antibody	25.00	Virology	M - F	2 - 4 days		Sealable plastic bag or container	Ship in insulated container with ice packs.
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 PCR  Salmonella Spp. environmental surveillance program for equine facilities with next-day result availability. A combination of enrichment culture and PCR will be performed. Surveillance samples must be submitted (be in the lab) on Wednesday each week by 3 PM. Samples should be collected Tuesday and shipped overnight, or collected Wednesday morning and hand delivered to the lab. Screening results will be reported by 5pm on Thursday. For sample collection information, refer to Salmonella Surveillance Materials and Directions. Samples arriving on other days or after 3pm will be processed by routine Salmonella culture testing. If there is a need for expedited results on a different day, contact salmonella@cornell.edu to make STAT arrangements (additional fees will apply). PCR-positive samples will be further cultured in order to determine bacterial viability and positive cultures will be serogrouped. Culture, serogroup and serotype identification of Salmonella Sp isolated will incur an additional charge per sample tested. A preliminary Salmonella culture report for PCR positive samples will be available in 48 hours. Serogroup results will be reported within 3-5 days. Antibiotic sensitivity testing is available if desired for an additional charge per isolate and the results will be reported within 3-5 days.	30.00	Molecular Diagnostics	Wednesday	2 days	Please refer to Comments	Sterile Whirl-pak bags or sterile collection jars, also zipper-lock bags for secondary containment.	Refrigerate. Ship in insulated container with ice pack. Samples must not be collected more than 5 days prior to expected delivery to the laboratory.
Sand Recovery Analysis Sand recovery from horse feces.	15.00	Parasitology	1 day/week	2 days	200 grams (8 -10 fecal balls) of feces	Leakproof container	
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
Serum Amyloid A  Serum Amyloid A turbidometric immunoassay (TIA) The lower limit of detection is <5 ug/ml. The upper reported limit is 2500 ug/mL in horses. This test is currently being performed only in horses. See Test Info and Protocols for more information. For test interpretation, refer to eclinpath.com	36.00	Clinical Pathology	Mon - Sat	1-2 days	5 mL Serum or heparinized Plasma	Red top (non-anticoagulant) or green top (heparin) tube	Refrigerate. Ship overnight in insulated container with freezer packs.
Skin Scraping For ectoparasites Visual examination, KOH digest and Sugar Centrifugation Flotation; send an adequate sample size in an escape-proof container; remember to scrape until skin begins to bleed	28.00	Parasitology	M-F	1-3 days	hair/fur and epidermal tissue	escape-proof, sealed container	Not needed
Sodium  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.

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-081-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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Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Sodium, urine	17.00	Clinical Pathology	M-Sa	1-2 days	1 mL urine	Red top (non-anticoagulant) tube	Refrigerate
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.							
Streptococcus equi Culture	22.00 /sample	Bacteriology	M-F	2-7 days	1) Nasal pharyngeal fluid; 2) Abscess aspirate; 3) Tracheal wash; 4) tissue sample e.g lymph node, lung 5) Swab of 1-4	1-4) Fluid or tissue in sealed sterile container; 4) Swab in Amies transport media WITH charcoal or other suitable aerobic transport medium	1-3) Refrigerate
For the isolation of Streptococcus equi ONLY. Consider additionally testing by Streptococcus equi PCR. Please request Aerobic Culture for evaluation of all equine respiratory bacterial pathogens. Antimicrobial susceptibilities are not included in the testing fee.							
Streptococcus equi PCR	36.75	Molecular Diagnostics	M-F as needed	2-3 days	1) nasal swab; 2) tracheal or guttural wash (min. 2 mL); 3) culture (solid or liquid) or isolate	unbreakable, leak-proof container	Refrigerate
Submit swabs in sterile, sealed vials with several drops of saline added, to prevent desiccation. <b>Bacterial transport media are not appropriate for PCR assays.</b> If culture is desired, submit a separate swab in an acceptable bacterial transport media. Cotton, plastic, wood-handled, and Dacron and other synthetic swabs are all acceptable for PCR-based assays. Calcium alginate swabs should be avoided. This service is performed pursuant to an agreement with Roche Molecular Systems. Stat processing is available. For more information, please see Molecular Diagnostic STAT policy/Resources:							
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 from	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							

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
T3 (Triiodothyronine) baseline For more information, see Appendix C	17.00	Endocrinology	M-F	1-3 days	1.5 mL serum or heparinized plasma	plastic or glass tube	Refrigerate
T3: Post TRH Test TRH post 4 hour For more information, see Appendix C	11.50	Endocrinology	M-F	1-3 days	1 mL serum or heparinized plasma	plastic or glass tube	Refrigerate
T3: TRH Response T3 - Pre TRH treatment For more information, see Appendix C	15.50	Endocrinology	M-F	1-3 days	1 mL serum or heparinized plasma	plastic or glass tube	Refrigerate
T4 (Thyroxine) - Immulite  For more information, see Appendix C	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.
T4: Post TRH Test For more information, see Appendix C	10.50	Endocrinology	M-F	1-3 days	1 mL serum or heparinized plasma	plastic or glass tube	Refrigerate
T4T3 Immulite baseline	27.00	Endocrinology	M-F	1-3 days	serum or heparinized plasma	red top blood tube	Refrigerate
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	
Theiler's Disease Associated Virus PCR  Real time PCR to detect Theilers disease associated virus This test has not been fully validated and is in the development phase. For questions, contact Dr. Ed Dubovi at 607-253-3900. The TDAV PCR test is based on the most up to date scientific knowledge of nucleic acid sequences from currently circulating viruses. A lack of test sensitivity can be due to factors such as virus mutation, possible latent stage infection or early acute infections where the viral load is below the detectable limit of the test. Therefore, we recommend follow up testing in 2-3 months after the initial testing.	36.75	Virology	as needed	5-7 days	serum; whole blood; liver	blood tube or unbreakable, leak proof container	Refrigerate. ship for next day delivery in insulated container with freezer packs.
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: FT4 by dialysis, T4, T3 For more information, see Appendix C	57.00	Endocrinology	M, Th	1-5 days	2 mL serum or heparinized plasma	plastic or glass tube	Refrigerate
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 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.

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
Total Protein Plasma (by refractometer)	5.00	Clinical Pathology	M-Sa	1-2 days	EDTA blood (>1/2 full)	lavender top tube	Refrigerate
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 OvernightFor test interpretation, refer to eclinpath.comTest reference ranges can be found at Clinpath Reference Intervals.							
Total Protein, blood	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 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							
Total Protein-Creatinine Panel	38.00	Clinical Pathology	M-Sa	1-2 days	2 mL urine	leak-proof container	Refrigerate. Ship overnight in insulated container with freezer packs.
Total Protein, Creatinine, P:C Ratio (Calc) for additional info on Clin Path panels							
Toxoplasma gondii IgG ELISA	20.00 /sample price.	Parasitology	Wed	1-7 days	100 uL serum	red-top blood collection tube	Refrigerate
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.							
Toxoplasmosis FA	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)
Fluorescent antibody							
Tracheal Wash Cytology	46.00	Clinical Pathology	M - F	1-2 days	from 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							
TRH Response: T4 T4 - pre TRH treatment For more information, see Appendix C	13.50	Endocrinology	M-F	1-3 days	1 mL serum or heparinized plasma	plastic or glass tube	Refrigerate
Trichinella Tissue Examination Acid Pepsin digest	27.50	Parasitology	M-F	7 days	muscle tissue	wide mouth leak-proof	Refrigerate
Trichomonas Fecal Examination	25.00	Parasitology	M-F	12 days	fecal swab in trichomonas In-Pouch (see instructions with trichomonas In-Pouch)		Do NOT Refrigerate
Trichomonas pouches are available from AHDC Shipping							
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 informationTest 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 (10uM) unstained tissue sections prepared from anatomic pathology cases that have been or are in the process of being reported on. These unstained slides or PCR tubes are prepared for the purpose of sending to another testing facility for slide review or referral analysis. Additional charges may be applied for shipping and handling. Price is per slide or PCR tube prepared.							

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-081-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
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 <a href="http://eclinpath.com">eclinpath.com</a> . Test reference ranges can be found at <a href="http://Clinpath Reference Intervals">Clinpath Reference Intervals</a> .							
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 <a href="http://eclinpath.com">eclinpath.com</a>							
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 <a href="http://eclinpath.com">eclinpath.com</a>							
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.
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.							
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.
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.							
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.
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.							
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
See also specific Viral FA tests Refer to individual FA tests							

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
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
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.							
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
(High Performance Liquid Chromatography) Analysis for retinol (vitamin A) using HPLC. Separate serum and remove from clot immediately. Protect from light and keep cool.							
Vitamin B12 & Folate combination	40.00	Endocrinology	Tu	1-8 days	1.5 - 2 mL serum; avoid EDTA plasma	plastic or glass tube	Refrigerate. Ship in insulated container with ice pack.
Avoid hemolysis and excessive exposure to direct light. For more information, see Appendix C							
Vitamin B12, Cobalamine	23.00	Endocrinology	Tu	1-8 days	1 mL serum; avoid EDTA	plastic or glass tube	Refrigerate. Ship in insulated container with ice pack.
Vitamin B12 Avoid hemolysis and excessive exposure to direct light. For more information, see Appendix C							
Vitamin E in serum	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
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.							
von Willebrand factor - large animal/exotic	48.50	Comparative Coagulation	1x/wk	14 days	1 mL citrate plasma (separated) EDTA plasma is acceptable	plastic or siliconized glass tube in styrofoam box	Cold pack or dry ice
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							
von Willebrand factor Collagen Binding Assay	43.00	Comparative Coagulation	bi-weekly	1-2 wks	citrate plasma	plastic or siliconized glass tube in styrofoam box	Refrigerate/ship on cold pack
Functional ELISA Ship Overnight; requires vWF:Ag on same sample; for additional info on Submission Guidelines, or see Comp Coag web page							
West Nile Virus (WNV) IgM Capture ELISA, Export	13.00	Serology	M, Th	3-4 days	2 mL serum	red top blood collection tube	Refrigerate
The WNV IgM Capture ELISA for the quantitative detection of IgM antibodies to West Nile virus (WNV) in horses and dogs induced by acute viral infection. For Canine/Canidae and Equine/Equidae only. Please provide WNV vaccination history on submission form for maximum assistance with interpretation of results. This test should be used only to satisfy international animal movement/export testing requirements.							

## Animal Health Diagnostic Center Test and Fee Schedule

Test Name	Test Fee	Discipline	Test Days	Lag**	Samples	Container	Coolant
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.
West Nile Virus IgG/IgM Capture ELISA Combination Combination test for IgG and IgM. The combination of the two tests distinguishes antibodies induced by acute viral infection and/or vaccination. Horses or other equidae only. This combination of tests is recommended for acute or acute and convalescent testing of suspect WNV clinical horses. Please provide WNV vaccination history on submission form for maximum assistance with interpretation of results.	21.00	Serology	M, Th	4 days	2mL serum or CSF	red top serum tube	Refrigerate
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
Whole Organs, Limbs, Special/Augmented Biopsies  Intended for complex submissions of entire organs, lobes, systems, tumor beds, limbs, jaws, etc. This includes research/insurance/legal cases for which every single tissue submitted must be described histologically and the selection of the tissues is not at the discretion of the pathologist. It may also include complicated submissions of entire organs or tumor beds or lymphatic samples that need exact tracking of site of collection for multiple samples of the same tissue type. 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.	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
Yersinia Culture  For the isolation of Yersinia enterocolitica. Antimicrobial susceptibilities are not included in the testing fee.	16.00 /sample	Bacteriology	M-Sa	2-7 days	1) Fresh feces or intestinal contents; 2) Ligated ileum or jejunum; 3) Mesenteric lymph node; 4) swab of 1-3	1)Feces in sealed sterile container or ParaPak; 2-3) Tissue in Separate sealed sterile containers; 4)Swab in Amies transport media or other suitable aerobic transport medium	1-3) Refrigerate EXCEPT ParaPak (keep at room temperature)

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VSS-WEB-081-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
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.

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.