

**TEST INFORMATION**

Issue date: 6/13/2008

Test	Specimen	Code	Storage	Schedule	Comments
<b>2M Antibody for Masticatory Myositis</b>	1 mL serum (SST or Red top)	<b>2MAB</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Acetylcholine Receptor Antibody for Myasthenia Gravis</b>	1 mL serum (SST or Red top)	<b>ARAB</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Acid-Fast Stain</b>	Air-dried smear, or tissue, feces, fluid or swab in sterile container	<b>AFS</b>	Refrigerate fluids, ship on ice Submit slides in slide holders (room temperature)	Run daily (Mon-Sat), results in 1-2 days (Mon-Sat)	Appropriate samples with positive acid-fast stain results are sent to Public Health for culture
<b>ACTH (endogenous)</b>	1 mL frozen EDTA plasma (Lavender top)	<b>ACTH</b>	Separate plasma into plain tube, freeze, ship frozen on ice (mandatory)	Referred out, please allow 2 weeks for results	Collect blood into a chilled lavender top tube, centrifuge and separate plasma into a plain plastic tube & freeze immediately, ship on ice
<b>Aerobic + Anaerobic Culture, ID &amp; Sensitivities</b>	Swab in aerobic or anaerobic transport media, or tissue in sterile container with a few drops of sterile saline, or fluid in blood culture bottle, or aspirated material in capped syringe (needle must be removed and any air bubbles expelled)	<b>AA</b>	Refrigerate swab if transport will be delayed >48 hours Refrigerate tissue, fluid, ship on ice	Please allow 3 days for negative results, longer depending on growth	Indicate source of specimen, clinical history, antimicrobial therapy, suspected disease  Collect specimen, if possible, prior to antimicrobial therapy  Vita-Tech provides swabs in Modified Amies Clear transport media (Star Swab II) that are appropriate for both aerobic and anaerobic culture  Vita-Tech provides OXOID Signal blood culture bottles (one bottle provides growth conditions for both aerobes and anaerobes; other blood culture systems will require separate aerobic and anaerobic bottles)  For anaerobic culture, ID and sensitivity normally stops at Gram pos or neg, B-lactamase pos or neg
<b>Aerobic Culture, ID &amp; Sensitivities</b>	Swab in aerobic transport media, or urine in tightly sealed sterile plastic jar, or tissue in sterile container with a few drops of sterile saline, or fluid in sterile container	<b>AER</b>	Refrigerate swab if transport will be delayed >48 hours Refrigerate urine, tissue, fluid, ship on ice	Please allow 2 days for negative results, longer depending on growth	Indicate source of specimen, clinical history, antimicrobial therapy, suspected disease  Please specify method of urine collection (free catch, catheter, cystocentesis)  Collect specimen, if possible, prior to antimicrobial therapy
<b>Alanine Aminotransferase</b>	0.5 mL serum (SST or Red top)	<b>ALT</b>	Refrigerate, ship on ice	Run on receipt, result same day	Sensitive to hemolysis due to release of ALT from erythrocytes (serum should be separated from the clot, a centrifuged SST is ideal)
<b>Albumin</b>	0.5 mL serum (SST or Red top)	<b>ALB</b>	Refrigerate, ship on ice	Run on receipt, result same day	

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<b>Albumin/Globulin Ratio</b>	0.5 mL serum (SST or Red top)	<b>AGR</b>	Refrigerate, ship on ice	Run on receipt, result same day	Calculated at no charge along with Globulin whenever Albumin and Total Protein are run
<b>Aldosterone</b>	1 mL frozen EDTA plasma (Lavender top)	<b>ALD</b>	Separate and freeze plasma, ship frozen on ice (mandatory)	Referred out, please allow 2 weeks for results	
<b>Aldosterone (Pre and Post ACTH Stimulation)</b>	1 mL frozen EDTA plasma (Lavender top)	<b>ALD2</b>	Separate and freeze plasma, ship frozen on ice (mandatory)	Referred out, please allow 2 weeks for results	
<b>Aleutian Disease Virus</b>	0.1 mL serum (Red top) or heparinized plasma (Green top microtainer)	<b>ADV</b>	Refrigerate, ship on ice	Referred out, please allow 1-2 weeks for results	
<b>Alkaline Phosphatase</b>	0.5 mL serum (SST or Red top)	<b>ALP</b>	Refrigerate, ship on ice	Run on receipt, result same day	
<b>Amended Insulin/Glucose Ratio</b>	1 mL serum (Red top), plus Grey top for glucose if serum not separated into a second red top tube	<b>IGR</b>	Refrigerate, ship on ice	Batched and run on Mon and Thu, results next day. Sample must be in the lab by 10am in order to be included in that day's run	Insulin/Glucose Ratio will be calculated if requested at no charge when Insulin and Glucose are ordered  If you have questions regarding fasting requirements for insulin testing, please contact one of our pathologists
<b>Amikacin</b>	1 mL serum (SST or Red top) Serum from a plain Red top tube is recommended for therapeutic drug monitoring	<b>AMI</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Amylase</b>	0.5 mL serum (SST or Red top)	<b>AMY</b>	Refrigerate, ship on ice	Run on receipt, result same day	
<b>Anaerobic Culture, ID &amp; Sensitivities</b>	Swab in aerobic or anaerobic transport media, or tissue in sterile container with a few drops of sterile saline, or fluid in blood culture bottle, or aspirated material in capped syringe (needle must be removed and any air bubbles expelled)	<b>ANAE</b>	Refrigerate swab if transport will be delayed >48 hours Refrigerate tissue, fluid, ship on ice Room temperature for blood culture bottles	Please allow 3 days for negative results, longer depending on growth	Indicate source of specimen, clinical history, antimicrobial therapy, suspected disease  Collect specimen, if possible, prior to antimicrobial therapy  For anaerobic culture Vita-Tech provides BBL Port-a-Cul anaerobic transport media for swabs and OXOID Signal blood culture bottles for fluids  Vita-Tech provides swabs in Modified Amies Clear transport media (Star Swab II) that are appropriate for both aerobic and anaerobic culture  For anaerobic culture, ID and sensitivity normally stops at Gram pos or neg, B-lactamase pos or neg
<b>Anion Gap</b>	1 mL serum (SST or Red top)	<b>AGAPP</b>	Refrigerate, ship on ice	Run on receipt, result same day	Anion Gap will be calculated if requested at no charge when ISE and Bicarbonate are ordered

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<b>Antinuclear Antibody Endpoint Titer IFA</b>	1 mL serum (SST or Red top)	<b>EPANA</b>	Refrigerate, ship on ice	Batched and run on Tue and Thu, results same day. Sample must be in the lab by 10am in order to be included in that day's run	
<b>Antinuclear Antibody Titer IFA</b>	1 mL serum (SST or Red top)	<b>ANAB</b>	Refrigerate, ship on ice	Batched and run on Tue and Thu, results same day. Sample must be in the lab by 10am in order to be included in that day's run	Please specify if endpoint titer is required (additional charge would apply)
<b>Antithrombin Function</b>	1 mL sodium citrate plasma (Blue top) Full draw is mandatory (2/3 to 3/4 full) See Notes	<b>ATF</b>	Separate plasma into plain tube, freeze, ship frozen on ice (mandatory)	Referred out, please allow 2 weeks for results	Fasting specimen recommended  Centrifuge, separate citrated plasma into a plain tube, freeze, ship on ice  Large animal submissions must be accompanied by a control specimen (a Blue top drawn from a healthy animal and handled the same as the patient specimen)  Incorrect blood to anticoagulant ratio will falsely prolong clotting times (blood to anticoagulant ratio must be 9:1)
<b>APTT</b>	1 mL sodium citrate plasma (Blue top) Full draw is mandatory (2/3 to 3/4 full) See Notes	<b>APTT</b>	Refrigerate, ship on ice	Run on receipt, result same day	Fasting specimen recommended  If testing will be delayed >4 hr, centrifuge, separate citrated plasma into a plain tube, freeze, ship on ice  Large animal submissions must be accompanied by a control specimen (a Blue top drawn from a healthy animal and handled the same as the patient specimen)  Incorrect blood to anticoagulant ratio will falsely prolong clotting times (blood to anticoagulant ratio must be 9:1)
<b>Arsenic</b>	5 mL heparinized whole blood (Green top), or 10 g liver or kidney tissue in tightly sealed plastic jar, or stomach contents in tightly sealed plastic jar	<b>ARS</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	

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<b>Aspartate Aminotransferase</b>	0.5 mL serum (SST or Red top)	<b>AST</b>	Refrigerate, ship on ice	Run on receipt, result same day	Sensitive to hemolysis due to release of AST from erythrocytes (serum should separated from the clot, a centrifuged SST is ideal)
<b>Aspergillus spp. Antibody part of Fungal Serology Panel</b>	1 mL serum (SST or Red top)	<b>ASAB</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Avian Beak and Feather Disease DNA</b>	50-100 uL whole blood (Green or Lavender top) or few drops blood on avian specimen card	<b>BFD</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results	Tissue can be submitted in sterile container frozen without formalin Freeze tissue immediately, ship on ice, dry ice if possible, must arrive at lab frozen  Do not submit whole birds  Environmental swab is also an appropriate sample for testing
<b>Avian Influenza Virus Antigen ELISA</b>	Choanal swab in sterile container or tissue in tightly sealed plastic jar	<b>AIVA</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Avian Pacheco's Disease DNA</b>	50-100 uL whole blood (Green or Lavender top) or few drops blood on avian specimen card, plus cloacal swab in sterile container without transport media	<b>PVD</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results	Tissue can be submitted in sterile container frozen without formalin Freeze tissue immediately, ship on ice, dry ice if possible, must arrive at lab frozen  Do not submit whole birds  Environmental swab is also an appropriate sample for testing
<b>Avian Polyomavirus DNA</b>	50-100 uL EDTA whole blood (Lavender top) or few drops blood on avian specimen card, plus cloacal or choanal swab in sterile container without transport media	<b>POLYD</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results	Tissue can be submitted in sterile container frozen without formalin Freeze tissue immediately, ship on ice, dry ice if possible, must arrive at lab frozen  Do not submit whole birds  Environmental swab is also an appropriate sample for testing
<b>Avian Sexing DNA</b>	50-100 uL whole blood (Green or Lavender top), or a few drops of blood on an avian specimen card, or 5-8 plucked secondary feathers with follicle	<b>ADS</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results	Certification provided: please provide owner's name, pet's name, breed, band # if available

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<b>Avian/Reptile Blood Parasites Smear</b>	0.5 mL whole blood (Green or Lavender top), or unstained air-dried smear	<b>BLDP</b>	Refrigerate, ship on ice Submit slides in slide holders (room temperature)	Please allow 24 hours (Mon-Fri) for results	
<b>Babesia canis Antibody IFA</b>	1 mL serum (SST or Red top)	<b>BAB</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	Include microchip number and destination and date of sample collection if testing for export
<b>Babesia gibsoni Antibody IFA</b>	1 mL serum (SST or Red top)	<b>BABG</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	Include microchip number and destination and date of sample collection if testing for export
<b>Babesia Smear</b>	1 mL EDTA whole blood (Lavender top), or unstained air-dried smear	<b>BABS</b>	Refrigerate, ship on ice Submit slides in slide holders (room temperature)	Please allow 24 hours (Mon-Fri) for results	
<b>Babesia spp. DNA</b>	1 mL EDTA whole blood (Lavender top)	<b>BABD</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results	
<b>Baermann (Lung Worm)</b>	3-5 g fresh feces in tightly sealed sterile plastic jar	<b>BAER</b>	Refrigerate, ship on ice	Please allow 2 days (Mon-Fri) for results	
<b>Bartonella henselae DNA</b>	1 mL EDTA whole blood (Lavender top)	<b>BHD</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results	
<b>Bence-Jones Protein</b>	10 mL urine in tightly sealed sterile plastic jar without preservative	<b>BJP</b>	Refrigerate, ship on ice	Referred out, please allow 2 week for results	Test for Bence-Jones Protein is available for dogs only
<b>Beta-Hydroxybutyric Acid</b>	1 mL serum (SST or Red top)	<b>BHBA</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Bicarbonate</b>	0.5 mL serum or heparinized plasma (SST, Red top, Green top)	<b>BIC</b>	Refrigerate, ship on ice	Run on receipt, result same day	
<b>Bile Acids</b>	1 mL serum (SST or Red top)	<b>BA</b>	Refrigerate, ship on ice	Run on receipt, result same day	
<b>Bilirubin (Conjugated)</b>	0.5 mL serum (SST or Red top)	<b>BILC</b>	Refrigerate, ship on ice	Run on receipt, result same day	
<b>Bilirubin (Total)</b>	0.5 mL serum (SST or Red top)	<b>BILT</b>	Refrigerate, ship on ice	Run on receipt, result same day	

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<b>Biopsy: 1 - 4 tissue samples</b>	Tissue in 10% formalin in tightly sealed plastic jar	<b>HIST</b>	Room temperature	Please allow 3-4 days (Mon-Fri) for results	Specify source of specimen and provide brief clinical history  Small masses should not be sectioned before submission (surgical margins need to be preserved)  Large masses may be sectioned before submission if the sectioning is complete, producing separate pieces (partial sectioning results in tissue distortion during fixation)
<b>Biopsy: 5 or more tissue samples</b>	Tissue in 10% formalin in tightly sealed plastic jar	<b>HIST5</b>	Room temperature	Please allow 3-4 days (Mon-Fri) for results	Specify source of specimen and provide brief clinical history  Small masses should not be sectioned before submission (surgical margins need to be preserved)  Large masses may be sectioned before submission if the sectioning is complete, producing separate pieces (partial sectioning results in tissue distortion during fixation)
<b>Biopsy: OFA Sebaceous Adenitis Database</b>	Skin biopsies in 10% formalin in tightly sealed plastic jar; Minimum two 6 mm punch biopsies from skin of back between neck and withers (sample areas of scaling or hair loss if present)	<b>SAD</b>	Room temperature	Please allow 1 week for results	Submit completed OFA Application for Sebaceous Adenitis Database form (form includes information on OFA registration fees and complete sampling instructions)  Minimum age required for registration is 12 months  OFA Registration fees: US\$15.00 payable to the OFA (see bottom of application for litter and kennel rates) Attach to the application a cheque or money order drawn on a US financial institution, a postal money order, or provide a Visa or Mastercard number along with expiration date and name as it appears on the card  Orthopedic Foundation for Animals 573-442-0418 www.offa.org
<b>Biopsy: Skin</b>	Tissue in 10% formalin in tightly sealed plastic jar	<b>SKB</b>	Room temperature	Please allow 3-4 days (Mon-Fri) for results	Specify source of specimen and provide brief clinical history
<b>Blastomyces dermatitidis Antibody part of Fungal Serology Panel</b>	1 mL serum (SST or Red top)	<b>BLA</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	Antibody titers may take 3 weeks to 3 months post-exposure to reach detectable levels  Positive titers indicate past exposure but not necessarily disease  Cytology or Histopathology is recommended for diagnosis of disease

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<b>Blood Culture/Joint Fluid Culture, ID &amp; Sensitivities</b>	1-10 mL whole blood or joint fluid in a blood culture bottle(10 mL is ideal but won't be practical in most cases) Do not use anticoagulant	<b>BCUL</b>	Room temperature	Please allow 7 days for results	Indicate source of specimen, clinical history, antimicrobial therapy, suspected disease  Collect specimen, if possible, prior to antimicrobial therapy If animal is on antibiotics, resin blood culture bottles should be used; inquire at local hospital  Vita-Tech provides OXOID Signal blood culture bottles (one bottle provides growth conditions for both aerobes and anaerobes; other blood culture systems will require separate aerobic and anaerobic bottles)
<b>Bovine Alpha-S1 Casein DNA</b>	1 mL EDTA whole blood (Lavender top)	<b>ACD</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Bovine Beta-Lactoglobulin DNA</b>	1 mL EDTA whole blood (Lavender top)	<b>BLD</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Bovine Brucella BPAT Canadian customers only</b>	2 mL serum (SST or Red top)	<b>BPAT</b>	Refrigerate, ship on ice	Please allow 4-5 days (Mon-Fri) for results	For CFIA accredited testing, requisitions must be obtained from the CFIA (fill out requisition in full, including veterinarian's signature)  Available for export only, not available for diagnostic purposes
<b>Bovine Citrullinemia DNA</b>	1 mL EDTA whole blood (Lavender top)	<b>CITD</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Bovine Coat Colour DNA</b>	1 mL EDTA whole blood (Lavender top), or 15-20 plucked coarse tail hairs with follicle	<b>CCCD</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Bovine Freemartinism DNA</b>	1 mL EDTA whole blood (Lavender top)	<b>FMD</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results	
<b>Bovine Herpesvirus Type 1 Antibody</b>	1 mL serum (SST or Red top)	<b>IBR</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Bovine Johne's Disease Antibody</b>	1 mL serum (SST or Red top)	<b>JOHB</b>	Refrigerate, ship on ice	Please allow 1 week for results	
<b>Bovine Kappa-Casein DNA</b>	1 mL EDTA whole blood (Lavender top)	<b>KCD</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Bovine Leukocyte Adhesion Deficiency DNA</b>	1 mL EDTA whole blood (Lavender top)	<b>BLADD</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Bovine Leukosis Virus (CHAH) ELISA Canadian customers only</b>	2 mL serum (SST or Red top)	<b>EBLV</b>	Refrigerate, ship on ice	Please allow 4-5 days (Mon-Fri) for results	For CFIA accredited testing (CHAH, Canada Health Accredited Herd), requisition forms must be obtained from the CFIA. Fill out requisition in full, including veterinarian's signature

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<b>Bovine Leukosis Virus (non-CHAH) ELISA</b>	2 mL serum (SST or Red top)	<b>BLV</b>	Refrigerate, ship on ice	Please allow 4-5 days (Mon-Fri) for results	
<b>Bovine Lyme Disease Antibody IFA</b>	1 mL serum (SST or Red top)	<b>LDBI</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	Wait 4 weeks after tick exposure before testing Does not distinguish between vaccination and infection
<b>Bovine Myostatin DNA Piedmontese only</b>	1 mL EDTA whole blood (Lavender top)	<b>PMD</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Bovine Neospora caninum Antibody ELISA</b>	1 mL serum (SST or Red top)	<b>NEO</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Bovine Parainfluenza Type 3 Antibody</b>	1 mL serum (SST or Red top)	<b>PI3</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Bovine Parentage</b>	15-20 plucked coarse tail hairs with follicle	<b>APB</b>	Refrigerate, ship on ice	Referred out, please allow 4 weeks for results	Samples should be submitted from dam, offspring, and possible sire (charge applies per sample)
<b>Bovine Respiratory Syncytial Virus Antibody</b>	1 mL serum (SST or Red top)	<b>BRSV</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Bovine Viral Diarrhea Antigen ELISA</b>	1 mL serum (SST or Red top)	<b>BVDE</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Bovine Viral Diarrhea Type 1 Antibody Titer</b>	1 mL serum (SST or Red top)	<b>BVD1</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Bovine Viral Diarrhea Type 2 Antibody Titer</b>	1 mL serum (SST or Red top)	<b>BVD2</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Bromide</b>	1 mL serum (SST or Red top)	<b>BRO</b>	Refrigerate, ship on ice	Please allow 24 hours for results	No timing requirement for draw (animal must have been under bromide treatment for at least 1 month)  Fasting sample recommended  Reference range for Bromide suggests the minimum level that may be effective in controlling seizures; actual effective level for a particular animal may be higher; this guideline applies whether or not the animal is also on phenobarbital
<b>Buffy Coat for Mast Cells</b>	2 mL EDTA whole blood (Lavender top)	<b>BUF</b>	Refrigerate, ship on ice	Please allow 1-2 days (Mon-Fri) for results	
<b>Calcium</b>	0.5 mL serum (SST or Red top)	<b>CAL</b>	Refrigerate, ship on ice	Run on receipt, result same day	
<b>Calculus Analysis by X-Ray Diffraction</b>	Stone in clean container without preservative	<b>VMD</b>	Room temperature	Referred out, please allow 2 weeks for results	Canadian Veterinary Urolith Centre submission form must be filled out, results will be released by University of Guelph directly to clinic

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<b>Canine Adenovirus Type 1 and 2 Antibody</b>	1 mL serum (SST or Red top)	<b>CAV</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Canine Blood Typing</b>	1 mL EDTA whole blood (Lavender top)	<b>BTC</b>	Refrigerate, ship on ice	Referred out, please allow 1 week for results	Vita-Tech provides: Canine universal donor packed red cells, approx 125 ml (non-returnable product) Canine fresh frozen plasma, approx 115 ml (non-returnable product) Administration/Filter Set Hemonate Filter (18 micron) Blood Collection Bag (250 mL or 450 mL)  Whole blood is not available
<b>Canine Brucella Antibody Agglutination</b>	2 mL serum (SST or Red top)	<b>BAGG</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	Include microchip number and destination and date of sample collection if testing for export
<b>Canine Brucella Antibody Titer IFA</b>	1 mL serum (SST or Red top)	<b>CBI</b>	Refrigerate, ship on ice	Batched and run on Tue and Thu, results same day. Sample must be in the lab by 10am in order to be included in that day's run	Please specify if endpoint titer is required (additional charge would apply)  Positive result for pre-breeding screening should be confirmed by Canine Brucella DNA or Canine Brucella Antibody (Agglutination)
<b>Canine Brucella DNA</b>	1 mL EDTA whole blood (Lavender top), and/or vaginal or preputial swab in sterile container without transport media	<b>CBD</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results	
<b>Canine Coat Colour DNA</b>	Buccal swab using a sterile cytology brush	<b>CGTD</b>	Refrigerate, ship on ice	Referred out, please allow 4 weeks for results	Coat colour markers in dam and sire are predictive of coat colour in offspring  Available for the following breeds: American Cocker Spaniel, Australian Cattle Dog, Border Collie, Curly-Coated Retriever, Dalmatian, Doberman Pinscher, English Cocker Spaniel, English Springer Spaniel, Flat-Coated Retriever, Gordon Setter, Klee-Kai, Labradoodle, Labrador Retriever, Newfoundland, Pointer, Poodles, Schipperke, Scottish Terrier, Stumpy Tail Cattle Dog
<b>Canine Copper Toxicosis DNA</b>	2 mL EDTA whole blood (Lavender top)	<b>CCTD</b>	Refrigerate, ship on ice	Referred out, please allow 4 weeks for results	Available for the following breeds: Bedlington Terrier
<b>Canine Coronavirus Antibody</b>	1 mL serum (SST or Red top)	<b>CVAB</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	

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<b>Canine Coronavirus DNA</b>	Feces in sterile container, or tissue (intestine) in sterile container, or effusion fluid in tightly sealed sterile plastic jar	<b>CVD</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results	1 mL EDTA whole blood (Lavender top) may be submitted, but is not the preferred specimen
<b>Canine Cystinuria DNA</b>	Buccal swab using a sterile cytology brush	<b>CUD</b>	Refrigerate, ship on ice	Referred out, please allow 4 weeks for results	Available for the following breeds: Newfoundland
<b>Canine Direct Coombs</b>	2 mL EDTA whole blood (Lavender top)	<b>CDC</b>	Refrigerate, ship on ice	Run on receipt, result same day	
<b>Canine Distemper Endpoint Titer IFA</b>	1 mL serum (SST or Red top)	<b>EPCD</b>	Refrigerate, ship on ice	Batched and run on Tue and Thu, results same day. Sample must be in the lab by 10am in order to be included in that day's run	
<b>Canine Distemper Vaccine Titer IFA</b>	1 mL serum (SST or Red top)	<b>CDVT</b>	Refrigerate, ship on ice	Batched and run on Tue and Thu, results same day. Sample must be in the lab by 10am in order to be included in that day's run	Please specify if endpoint titer is required (additional charge would apply)
<b>Canine E Screen</b>	0.5 mL serum (SST or Red top)	<b>CES</b>	Refrigerate, ship on ice	Please allow 1-2 days (Mon-Fri) for results	Screens for environmental allergens only
<b>Canine Ehrlichia canis Antibody Titer IFA</b>	1 mL serum (SST or Red top)	<b>ECl</b>	Refrigerate, ship on ice	Batched and run on Tue and Thu, results same day. Sample must be in the lab by 10am in order to be included in that day's run	Please specify if endpoint titer is required (additional charge would apply)  Include microchip number and destination and date of sample collection if testing for export
<b>Canine Ehrlichia canis Endpoint Titer IFA</b>	1 mL serum (SST or Red top)	<b>EPEC</b>	Refrigerate, ship on ice	Batched and run on Tue and Thu, results same day. Sample must be in the lab by 10am in order to be included in that day's run	

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<b>Canine Environmental Panel</b>	3 mL serum (SST or Red top)	<b>CEP</b>	Refrigerate, ship on ice	Batched and run Tuesdays, results by Friday. Sample must be in the lab by 10am to be included in that day's run	Includes 48 allergens: Alternaria tenuis, American Cockroach, American Elm, American Sycamore, Aspergillus fumigatus, Bayberry Wax Myrtle, Bermuda Grass, Black Birch, Black Walnut, Box Elder, Burweed Marsh Elder, Cat Epithelium, Cladosporium sphaerospermum, Common Cocklebur, Dermatophytes farinae (mite), Dermatophytes pteronyssinus (mite), Eastern Cottonwood, English Plantain, Flea Saliva, Fusarium roseum, Johnson Grass, June Bluegrass, Kochia, Lamb's-Quarters, Meadow Fescue, Mugwort, Orchard Grass, Penicillium notatum/chrysogenum, Perennial Rye Grass, Quaking Aspen, Red Cedar, Red Mulberry, Redtop Grass, Rough Marsh Elder, Rough Pigweed, Russian Thistle, Shagbark Hickory, Short Ragweed, Smooth Brome, Sugar Maple, Sweet Vernal, Tall Ragweed, Timothy Grass, Tyrophagus putrescentiae (mite), White Ash, White Oak, Yellow Dock, Yellow Pine  Hyposensitization treatment extracts may be ordered through Vita-Tech for environmental allergens
<b>Canine Food Panel</b>	1 mL serum (SST or Red top)	<b>CFP</b>	Refrigerate, ship on ice	Referred out, please allow 1 week for results	Includes 24 allergens: Barley, Brewer's Yeast, Cooked Beef, Cooked Chicken, Cooked Corn, Cooked Fish Mix (Cod, Halibut, Tuna), Cooked Lamb, Cooked Pork, Cooked Rice, Milk, Potato, Rabbit, Soybean, Turkey, Venison, Wheat Grain, Whey, Whole Egg  Hyposensitization treatment extracts for food allergens are not available
<b>Canine Herpesvirus Antibody Titer</b>	1 mL serum (SST or Red top)	<b>CHAB</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Canine Influenza Virus Antibody Titer</b>	1 mL serum (SST or Red top)	<b>CIV</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	Acute and convalescent titers recommended (10 - 14 days apart) Single sample from a recovering patient is acceptable Charge applies per sample
<b>Canine Leishmania Antibody ELISA</b>	1 mL serum (SST or Red top)	<b>ELEI</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Canine Lyme Disease Antibody Titer IFA</b>	1 mL serum (SST or Red top)	<b>LDI</b>	Refrigerate, ship on ice	Batched and run on Tue and Thu, results same day. Sample must be in the lab by 10am in order to be included in that day's run	Please specify if endpoint titer is required (additional charge would apply)  Wait 4 weeks after tick exposure before testing  Does not distinguish between vaccination and infection  Positive Canine Lyme Disease Ab IFA titers should be confirmed by Canine Lyme Disease Ab SNAP because of cross-reactivity with oral spirochetes

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<b>Canine Lyme Disease Antibody Western Blot</b>	1 mL serum (SST or Red top)	<b>LDWB</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	Wait 4 weeks after tick exposure before testing  Distinguishes between vaccination and infection
<b>Canine Lyme Disease Endpoint Titer IFA</b>	1 mL serum (SST or Red top)	<b>EPLD</b>	Refrigerate, ship on ice	Batched and run on Tue and Thu, results same day. Sample must be in the lab by 10am in order to be included in that day's run	Wait 4 weeks after tick exposure before testing  Does not distinguish between vaccination and infection
<b>Canine Lyme Disease Quant C6 ELISA IDEXX Quant C6</b>	0.5 mL serum (SST or Red top)	<b>QC6</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results	Wait 4 weeks after tick exposure before testing  Distinguishes between vaccination and infection  Quant C6 should be ordered to confirm a positive lyme screen result by SNAP A positive result is highly suggestive of active Lyme disease, rather than exposure or vaccination  Levels of C6 antibody decline sharply within 6 months after treatment
<b>Canine Merle Gene</b>	1 mL EDTA whole blood (Lavender top), or Buccal swab using a sterile cytology brush (2)	<b>MER</b>	Refrigerate blood, ship on ice Air dry buccal swabs, store and ship at room temperature	Please allow 4-5 days (Mon-Fri) for results	Merle coat colour pattern is recognized in a number of breeds: Shetland Sheepdog, Collie, Harlequin Great Dane, Border Collie, Dachshund, Australian Shepherd, Cardigan Welsh Corgi. The merle gene can be inherited from either the mother or the father. A dog expressing only one copy of the merle gene will express the merle coat colour pattern. Double merle dogs most often suffer from severe eye and ear problems
<b>Canine Neospora caninum Antibody ELISA</b>	1 mL serum (SST or Red top)	<b>NEOC</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Canine Parainfluenza Antibody Titer</b>	1 mL serum (SST or Red top)	<b>CPI</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Canine Parentage</b>	Buccal swab using a sterile cytology brush, or 1 mL EDTA whole blood (Lavender top)	<b>APC</b>	Refrigerate, ship on ice	Referred out, please allow 4 weeks for results	Certification provided for CKC registration (the chain of custody form provided must be filled out)  Samples should be submitted from dam, offspring, and possible sire (charge applies per sample)
<b>Canine Parvovirus Antigen SNAP</b>	Fresh feces in tightly sealed plastic sterile jar or rectal swab in sterile container without transport media	<b>CPAG</b>	Refrigerate, ship on ice	Run on receipt, result same day	Fresh feces or rectal swab should be received with 24 hours (may be preserved longer by freezing and shipping on ice)  Results not affected by vaccination

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<b>Canine Parvovirus DNA</b>	1 mL EDTA whole blood (Lavender top), and/or feces in tightly sealed plastic jar	<b>CPD</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results	Does not distinguish between wild type and vaccine  After immunization with modified live Parvovirus vaccine, viral DNA from the vaccine may be detected in circulation and in feces for 2-3 weeks
<b>Canine Parvovirus Endpoint Titer IFA</b>	1 mL serum (SST or Red top)	<b>EPCP</b>	Refrigerate, ship on ice	Batched and run on Tue and Thu, results same day. Sample must be in the lab by 10am in order to be included in that day's run	
<b>Canine Parvovirus Vaccine Titer IFA</b>	1 mL serum (SST or Red top)	<b>CPVT</b>	Refrigerate, ship on ice	Batched and run on Tue and Thu, results same day. Sample must be in the lab by 10am in order to be included in that day's run	Please specify if endpoint titer is required (additional charge would apply)
<b>Canine Pregnancy (Relaxin)</b>	1 mL serum (SST or Red top), or 1 mL EDTA plasma (Lavender top), or 1 mL heparinized plasma (Green top)	<b>CPT</b>	Refrigerate, ship on ice	Same day	Although approximately 80% of pregnant bitches test Positive between 20 and 28 days post-LH surge, some may not test Positive until 34 days post-breeding  Relaxin levels remain elevated throughout pregnancy  Re-test at least 34 days post-breeding if a previous result was Negative
<b>Canine T4</b>	1 mL serum (SST or Red top)	<b>CT4</b>	Refrigerate, ship on ice	Run on receipt, result same day	For monitoring thyroxine medication, collect 4-6 hours post dose
<b>Canine Thyroglobulin Autoantibodies</b>	1 mL serum (Red top)	<b>CTAA</b>	Refrigerate, ship on ice	Batched and run on Mon, Wed and Fri, results same day. Sample must be in the lab by 10am in order to be included in that day's run	Canine Thyroglobulin Autoantibodies is the superior diagnostic indicator of immune-mediated thyroiditis
<b>Canine TLI Trypsin-Like Immunoreactivity</b>	1 mL serum (SST or Red top)	<b>TLI</b>	Refrigerate, ship on ice	Batched and run on Mon, Wed and Fri, results same day. Sample must be in the lab by 10am in order to be included in that day's run	12 hr fasting specimen required (water is permitted)  Test of choice for exocrine pancreatic insufficiency (EPI)
<b>Canine TSH</b>	1 mL serum (Monoject CORVAC SST or Red top)	<b>TSH</b>	Refrigerate, ship on ice	Run on receipt, result same day	TSH is available for canines only

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<b>Canine Urine Microalbumin</b>	2 mL urine in tightly sealed sterile plastic jar without preservative	<b>CUMA</b>	Refrigerate, ship on ice	Same day	Urinalysis should also be performed to check for pyuria and hematuria (pyuria and 3+ or 4+ hematuria can cause false high values)  Persistent microalbuminuria (Positive on at least 2 of 3 samples acquired 2 weeks apart) is indicative of nephron damage and in the absence of hematuria, pyuria, or azotemia supports a diagnosis of early renal disease  Microalbumin is the test of choice for urines with negative protein on dipstick  Urine Protein/Creatinine Ratio is the test of choice for urines with positive protein on dipstick
<b>Canine von Willebrand's Disease DNA</b>	Buccal swab using a sterile cytology brush	<b>VWDD</b>	Refrigerate, ship on ice	Referred out, please allow 4 weeks for results	Available for the following breeds: Bernese Mountain Dog, Doberman Pinscher, Drentsche Patrijshond, German Pinscher, Kerry Blue Terrier, Kooikerhondje, Manchester Terrier, Papillon, Pembroke Welsh Corgi, Poodle, Scottish Terrier, Shetland Sheepdog  Unambiguously classifies dog as Clear, Carrier, or Affected
<b>Canine West Nile Virus IgM Antibody ELISA</b>	1 mL serum (SST or Red top), or 1 mL EDTA plasma (Lavender top)	<b>WNVMC</b>	Refrigerate, ship on ice	Please allow 1-2 days (Mon-Fri) for results	
<b>Canine/Feline Adrenal Panel (ACTH Stimulation)</b>	1 mL serum (Red top) separated from clot and frozen ASAP	<b>CAP</b>	Separate and freeze serum, ship frozen on ice (mandatory)	Referred out, please allow 2 weeks for results	Includes: Cortisol, Estradiol, Androstenedione, 17-Hydroxyprogesterone, Progesterone, Aldosterone
<b>Canine/Feline Heartworm Antigen ELISA</b>	0.5 mL serum (SST or Red top) or 1 mL EDTA whole blood (Lavender top)	<b>HW</b>	Refrigerate, ship on ice	Please allow 24 hours for results	Positive Heartworm Antigen ELISA on Lavender top submission will have Heartworm Filter performed at no charge
<b>Canine/Feline Herpesvirus DNA</b>	Swab in sterile container without transport media and/or 1 mL EDTA whole blood (Lavender top)	<b>HVD</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results	Samples should be collected prior to commencing antiviral therapy
<b>Caprine Arthritis Encephalitis Antibody AGID</b>	1 mL serum (SST or Red top)	<b>CAE</b>	Refrigerate, ship on ice	Please allow 3-5 days (Mon-Fri) for results	
<b>Caprine Lyme Disease Antibody IFA</b>	1 mL serum (SST or Red top)	<b>LDCI</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	Wait 4 weeks after tick exposure before testing  Does not distinguish between vaccination and infection
<b>Caprine Parentage</b>	15-20 plucked coarse tail hairs with follicle	<b>APG</b>	Refrigerate, ship on ice	Referred out, please allow 4 weeks for results	Samples should be submitted from dam, offspring, and possible sire (charge applies per sample)

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<b>Caprine/Ovine Johne's Disease Antibody</b>	1 mL serum (SST or Red top)	<b>JOHS</b>	Refrigerate, ship on ice	Please allow 1 week for results	
<b>Carnitine</b>	1 mL frozen heparinized plasma (Green top) or 10 mL frozen urine in tightly sealed sterile container	<b>CAR</b>	Separate and freeze plasma, freeze urine, ship frozen on ice (mandatory)	Referred out, please allow 4 weeks for results	A full workup including Plasma Carnitine, Urine Carnitine, and Muscle Carnitine plus interpretation is also available (additional charge would apply)
<b>Chlamydia Antigen ELISA</b>	Pharyngeal, choanal, or conjunctival swab (rayon swab in sterile container without transport media), sputum, or bronchoalveolar lavage fluid	<b>CHLAG</b>	Refrigerate, ship on ice	Please allow 24 hours (Mon-Fri) for results	Do not use cotton swabs  The swabs that Vita-Tech supplies are rayon swabs  Feces is NOT an acceptable sample Cloacal swab is NOT an acceptable sample
<b>Chlamydia psittaci DNA</b>	Swab in sterile container without transport media, and/or 1 mL EDTA whole blood (Lavender top) Avian specimen: see Notes	<b>CHLD</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results	Samples should be collected prior to commencing antimicrobial therapy  Avian specimen: 50-100 uL whole blood (Green or Lavender top) or few drops blood on avian specimen card, plus conjunctival, choanal, or cloacal swab in sterile container without transport media  Tissue can be submitted in sterile container frozen without formalin Freeze tissue immediately, ship on ice, dry ice if possible, must arrive at lab frozen  Do not submit whole birds
<b>Chloride part of ISE Panel</b>	0.5 mL serum (SST or Red top)	<b>CHL</b>	Refrigerate, ship on ice	Run on receipt, result same day	For Chloride, ISE Panel must be ordered  ISE Panel includes Sodium, Potassium, Sodium/Potassium Ratio, and Chloride
<b>Cholesterol</b>	0.5 mL serum (SST or Red top)	<b>CHO</b>	Refrigerate, ship on ice	Run on receipt, result same day	Post prandial values may be elevated, fasting sample strongly recommended
<b>Cholinesterase</b>	Canine, feline: 1 mL serum (SST or Red top) Bovine: 1 mL EDTA whole blood (Lavender top)	<b>CHE</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Clostridium difficile Toxins A &amp; B</b>	Feces in tightly sealed sterile plastic jar	<b>CDAG</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	

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Test	Specimen	Code	Storage	Schedule	Comments
<b>Clostridium perfringens Enterotoxin A ELISA</b>	3-5 g fresh feces in tightly sealed plastic jar (SAF not suitable)	<b>CPERF</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results	Sample must be received with 72 hours (may be preserved longer by freezing and shipping on ice)
<b>Clotting Factor II</b>	1 mL sodium citrate plasma (Blue top) Full draw is mandatory on Blue tops (2/3 to 3/4 full) See Notes	<b>CF2</b>	Separate plasma into plain tube, freeze, ship frozen on ice (mandatory)	Referred out, please allow 2 weeks for results	Fasting specimen recommended  Centrifuge, separate citrated plasma into a plain tube, freeze, ship on ice  Large animal submissions must be accompanied by a control specimen (a Blue top drawn from a healthy animal and handled the same as the patient specimen)  Incorrect blood to anticoagulant ratio will falsely prolong clotting times (blood to anticoagulant ratio must be 9:1)
<b>Clotting Factor IX</b>	1 mL sodium citrate plasma (Blue top) Full draw is mandatory (2/3 to 3/4 full) See Notes	<b>CF9</b>	Separate plasma into plain tube, freeze, ship frozen on ice (mandatory)	Referred out, please allow 2 weeks for results	Fasting specimen recommended  Centrifuge, separate citrated plasma into a plain tube, freeze, ship on ice  Large animal submissions must be accompanied by a control specimen (a Blue top drawn from a healthy animal and handled the same as the patient specimen)  Incorrect blood to anticoagulant ratio will falsely prolong clotting times (blood to anticoagulant ratio must be 9:1)
<b>Clotting Factor V</b>	1 mL sodium citrate plasma (Blue top) Full draw is mandatory (2/3 to 3/4 full) See Notes	<b>CF5</b>	Separate plasma into plain tube, freeze, ship frozen on ice (mandatory)	Referred out, please allow 2 weeks for results	Fasting specimen recommended  Centrifuge, separate citrated plasma into a plain tube, freeze, ship on ice  Large animal submissions must be accompanied by a control specimen (a Blue top drawn from a healthy animal and handled the same as the patient specimen)  Incorrect blood to anticoagulant ratio will falsely prolong clotting times (blood to anticoagulant ratio must be 9:1)
<b>Clotting Factor VII</b>	1 mL sodium citrate plasma (Blue top) Full draw is mandatory (2/3 to 3/4 full) See Notes	<b>CF7</b>	Separate plasma into plain tube, freeze, ship frozen on ice (mandatory)	Referred out, please allow 2 weeks for results	Fasting specimen recommended  Centrifuge, separate citrated plasma into a plain tube, freeze, ship on ice  Large animal submissions must be accompanied by a control specimen (a Blue top drawn from a healthy animal and handled the same as the patient specimen)  Incorrect blood to anticoagulant ratio will falsely prolong clotting times (blood to anticoagulant ratio must be 9:1)

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<b>Clotting Factor VIII</b>	1 mL sodium citrate plasma (Blue top) Full draw is mandatory (2/3 to 3/4 full) See Notes	<b>CF8</b>	Separate plasma into plain tube, freeze, ship frozen on ice (mandatory)	Referred out, please allow 2 weeks for results	Fasting specimen recommended  Centrifuge, separate citrated plasma into a plain tube, freeze, ship on ice  Large animal submissions must be accompanied by a control specimen (a Blue top drawn from a healthy animal and handled the same as the patient specimen)  Incorrect blood to anticoagulant ratio will falsely prolong clotting times (blood to anticoagulant ratio must be 9:1)
<b>Clotting Factor X</b>	1 mL sodium citrate plasma (Blue top) Full draw is mandatory (2/3 to 3/4 full) See Notes	<b>CF10</b>	Separate plasma into plain tube, freeze, ship frozen on ice (mandatory)	Referred out, please allow 2 weeks for results	Fasting specimen recommended  Centrifuge, separate citrated plasma into a plain tube, freeze, ship on ice  Large animal submissions must be accompanied by a control specimen (a Blue top drawn from a healthy animal and handled the same as the patient specimen)  Incorrect blood to anticoagulant ratio will falsely prolong clotting times (blood to anticoagulant ratio must be 9:1)
<b>Clotting Factor XI</b>	1 mL sodium citrate plasma (Blue top) Full draw is mandatory (2/3 to 3/4 full) See Notes	<b>CF11</b>	Separate plasma into plain tube, freeze, ship frozen on ice (mandatory)	Referred out, please allow 2 weeks for results	Fasting specimen recommended  Centrifuge, separate citrated plasma into a plain tube, freeze, ship on ice  Large animal submissions must be accompanied by a control specimen (a Blue top drawn from a healthy animal and handled the same as the patient specimen)  Incorrect blood to anticoagulant ratio will falsely prolong clotting times (blood to anticoagulant ratio must be 9:1)
<b>Coccidioides immitis Antibody part of Fungal Serology Panel</b>	1 mL serum (SST or Red top)	<b>CCAB</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Contagious Equine Metritis</b>	2 mL serum (SST or Red top)	<b>CEM</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	

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Test	Specimen	Code	Storage	Schedule	Comments
<b>Copper</b>	1 mL serum (SST or Red top), or True-cut biopsy of liver or kidney in sterile container, or 10 g liver or kidney tissue in tightly sealed plastic jar, or stomach contents in tightly sealed plastic jar (additional charge would apply)	<b>COP</b>	Refrigerate, ship on ice	Referred out, please allow 1 week for results	
<b>Corticosteroid-induced Alkaline Phosphatase Isoenzyme</b>	1 mL serum (SST or Red top)	<b>ALPI</b>	Refrigerate, ship on ice	Referred out, please allow 1 week for results	Method validated for canine use only  Includes ALP
<b>Cortisol</b>	1 mL serum (Monoject CORVAC SST or Red top)	<b>COR</b>	Refrigerate, ship on ice	Run on receipt, result same day	
<b>Creatine Kinase</b>	0.5 mL serum (SST or Red top)	<b>CK</b>	Refrigerate, ship on ice	Run on receipt, result same day	
<b>Creatinine</b>	0.5 mL serum (SST or Red top)	<b>CRE</b>	Refrigerate, ship on ice	Run on receipt, result same day	
<b>Cryptococcus neoformans Antigen part of Fungal Serology Panel</b>	1 mL serum (SST or Red top)	<b>CRYA</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Cryptosporidium Antigen ELISA</b>	3-5 g fresh feces in tightly sealed plastic jar or 3-5 g fresh feces in SAF in tightly sealed plastic jar	<b>CSAG</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results	Fresh feces must be received within 24 hours (may be preserved longer by freezing and shipping on ice)
<b>Cryptosporidium Smear</b>	3-5 g fresh feces in SAF in tightly sealed plastic jar	<b>CRYP</b>	Room temperature	Please allow 2 days (Mon-Fri) for results	
<b>CSF Analysis Manual Cell Count &amp; Microprotein only</b>	CSF in a Lavender top without formalin	<b>CSF</b>	Refrigerate, ship on ice	Run on receipt, result same day	Includes Microprotein Quantitation and Manual Cell Count only  Cytology must be ordered if morphological assessment is required
<b>Cyclosporin</b>	1-2 mL EDTA whole blood (Lavender top)	<b>CYCLO</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	Collect sample just before next dose

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<b>Cytology: Bone Marrow</b>	Bone marrow aspirate unstained air-dried smears, plus 1 mL EDTA peripheral whole blood (Lavender top)	<b>BM</b>	Refrigerate, ship on ice Submit slides in slide holders (room temperature)	Please allow 24 hours (Mon-Fri) for results	Provide brief clinical history
<b>Cytology: FNA/Fluid/CSF</b>	CSF, lavage or body cavity fluid: split into Lavender top and Red top tubes without preservative, plus unstained air-dried smears  Urine: urine in tightly sealed sterile plastic jar without preservative, plus unstained air-dried smears from centrifuged sediment  Fine needle aspirate: unstained air-dried smears	<b>CYTO</b>	Refrigerate, ship on ice Submit slides in slide holders (room temperature)	Please allow 24 hours (Mon-Fri) for results	Includes total protein & cell count on body fluid, microprotein & manual cell count on CSF  Specify source of specimen and provide brief clinical history and gross appearance of site as applicable  For CSF 1 or 2 drops of serum can be added to the lavender top tube to aid in cell preservation (this will invalidate the microprotein result on the lavender top tube; a red top tube with no additive will be required)  Additional sites can be submitted (no additional charge)
<b>D-Dimer</b>	1 mL sodium citrate plasma (Blue top), or 1 mL EDTA plasma (Lavender top) Full draw is mandatory on Blue tops (2/3 to 3/4 full) See Notes	<b>DD</b>	Refrigerate, ship on ice	ASAP (Same day)	Aid in diagnosis of thrombotic disorders (direct marker of fibrinolytic activity, indirect marker of clot formation)  If testing will be delayed >4 hr, centrifuge, separate plasma into a plain tube, freeze, ship on ice
<b>Digoxin</b>	1 mL serum (Red top, do not use SST)	<b>DIG</b>	Refrigerate, ship on ice	Run on receipt, result same day	Collect specimen 8 hours post dose  SST tubes are unsuitable for this test
<b>Dourine Complement Fixation</b>	2 mL serum (SST or Red top)	<b>DOU</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	

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<b>Drugs: Acid-Extractable</b>	20-30 mL urine in tightly sealed sterile plastic jar, or 5-10 mL heparinized plasma (Green top), or 5-10 mL serum (Red top, do not use SST)	<b>AED</b>	Refrigerate, ship on ice	Referred out, please allow 1 week for results	Includes (but not limited to): Acetaminophen, Barbiturates, Bumetanide, Chlorothiazide, Diclofenac, Diflunisal, Flufenamic acid, Flunixin, Flurbiprofen, Furosemide, Griseofulvin, Ibuprofen, Indomethacin, Ketoprofen, Meclofenamic acid, Meprobamate, Methocarbamol, Naproxen, Oxyphenbutazone, Phenylbutazone, Nabumatone, Salicylic acid, Sulfadiazine, Sulfadimethoxine, Sulfadimidine, Sulfafurazole, Sulfamerazine, Sulfamethoxazole, Sulfanilamide, Sulfapyridine, Sulfathiazole, Sulindac, Tolmetin, Zomepirac
<b>Drugs: Base-Extractable</b>	20-30 mL urine in tightly sealed sterile plastic jar, or 5-10 mL heparinized plasma (Green top), or 5-10 mL serum (Red top, do not use SST)	<b>BED</b>	Refrigerate, ship on ice	Referred out, please allow 1 week for results	Includes (but not limited to): Acepromazine, Amphetamine, Apomorphine, Atropine, Benzocaine, Brompheniramine, Brucine, Bupivacaine, Caffeine, Chlorpromazine, Cocaine, Codeine, Cyproheptadine, Dextromethorphan, Diazepam, Dihydrocodeine, Dipyrone, Doxapram, Embutramide, Ephedrine, Fluphenazine, Griseofulvin, Hordenine, Hydrocodone, Ketamine, Lidocaine, Mepivacaine, Meprobamate, Methocarbamol, Methylphenidate, Methamphetamine, Metoclopramide, Pentazocine, Phenacetin, Phenothiazine, Procaine, Promazine, Phenylpropanolamine, Propoxyphene, Pyrilamine, Strychnine, Tetracaine, Theobromine, Theophylline, Trimethoprim, Tropicamide, Xylazine
<b>Eastern Equine Encephalitis</b>	1 mL serum (SST or Red top)	<b>EEE</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	Please specify whether for diagnosis of active disease or for vaccine titer
<b>Ectoparasite Identification</b>	Tick in clean container without preservative	<b>EID</b>	Room temperature	Please allow 1-2 days (Mon-Fri) for results	If tick is identified as Ixodes scapularis, a known vector for Lyme Disease, DNA-PCR testing for the causative agent Borrelia burgdorferi is recommended
<b>Ehrlichia canis DNA</b>	Tick in clean container without preservative, or tissue in sterile container without preservative, or EDTA whole blood (Lavender top)	<b>EHCD</b>	Tick at room temperature. Tissue/blood refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Encephalitozoon cuniculi Antibody IFA (Rabbit)</b>	0.5 mL serum (SST or Red top)	<b>ECUN</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Enterotoxin C-producing Staph. aureus DNA</b>	Food	<b>SACD</b>	Refrigerate, ship on ice	Run daily (Mon-Fri). Results in 2-3 days (Mon-Fri)	
<b>Equine Blood Typing</b>	5 mL EDTA whole blood (Lavender top)	<b>BTE</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	

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<b>Equine COPD Panel</b>	2 ml serum (SST or Red top)	<b>ECOPD</b>	Refrigerate, ship on ice	Referred out, please allow 4 weeks for results	Includes 12 allergens: Alternaria alternata, Aspergillus fumigatus/niger, Botrytis cinerea, Cladosporium herbarum, Fusarium vasinfectum, Helminthosporium sativum, Penicillium notatum, Pullularia pullulans, Rhizopus nigricans, Sporobolomyces roseus, Tilletia contraversa, Ustilago maydis/hordei  Hyposensitization treatment extracts may be ordered through Vita-Tech for environmental allergens
<b>Equine Direct Coombs</b>	2 mL EDTA whole blood (Lavender top)	<b>EDC</b>	Refrigerate, ship on ice	Referred out, please allow 1 week for results	
<b>Equine E Screen</b>	0.5 mL serum (SST or Red top)	<b>EES</b>	Refrigerate, ship on ice	Please allow 1-2 days (Mon-Fri) for results	Screens for environmental allergens only
<b>Equine Erythropoietin/Darbepoetin Antibodies</b>	1 mL serum (SST or Red top), or heparinized plasma (Green top)	<b>ERYAB</b>	Refrigerate, ship on ice	Referred out, please allow 1 week for results	
<b>Equine Food Panel</b>	1 ml serum (SST or Red top)	<b>EFS</b>	Refrigerate, ship on ice	Referred out, please allow 4 weeks for results	Includes 12 allergens: Alfalfa, Barley, Blue Grass, Clover Mix, Corn, Oats, Orchard Grass, Pasture Mix, Perennial Rye Grass, Soybean, Timothy Grass, Wheat (Whole)  Hyposensitization treatment extracts for food allergens are not available
<b>Equine Herpesvirus Type 1 and 4 Antibody Titer</b>	1 mL serum (SST or Red top)	<b>EHV1</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Equine Herpesvirus Type 1 DNA</b>	Nasopharyngeal swabs (2) in sterile container without transport media, plus 2 mL EDTA whole blood (Lavender top)	<b>EHV1D</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Equine Herpesvirus Type 2 Antibody Titer</b>	1 mL serum (SST or Red top)	<b>EHV2</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Equine Hyperkalemic Periodic Paralysis DNA</b>	2 mL EDTA whole blood (Lavender top), or 15-20 plucked mane hairs with follicle	<b>EHD</b>	Refrigerate, ship on ice	Please allow 1 week for results	Certification provided (please fill out requisition form in full)  VITA-TECH's HYPP results are recognized for registration with the American Quarter Horse Association
<b>Equine Infectious Anemia ELISA</b> Canadian customers only	1 mL serum (SST or Red top)	<b>EIA</b>	Refrigerate, ship on ice	Please allow 2 days (Mon-Fri) for results	For CFIA accredited testing, requisitions must be obtained from the CFIA (fill out requisition in full, including veterinarian's signature)  Price includes CFIA fees

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<b>Equine Influenza Virus Antibody</b>	1 mL serum (SST or Red top)	<b>EI</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Equine Lyme Disease Antibody ELISA</b>	2 mL serum (SST or Red top)	<b>ELYME</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	Wait 4 weeks after tick exposure before testing  Equivocal results should be confirmed by Lyme Disease Antibody Western Blot  Non-vaccinates only
<b>Equine Lyme Disease Antibody Western Blot</b>	1 mL serum (SST or Red top)	<b>ELDWB</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	Wait 4 weeks after tick exposure before testing  Distinguishes between vaccination and infection
<b>Equine Parentage</b>	15-20 plucked mane hairs with follicle	<b>APE</b>	Refrigerate, ship on ice	Referred out, please allow 4 weeks for results	Certification provided (the chain of custody form provided must be filled out)  Samples should be submitted from dam, offspring, and possible sire (charge applies per sample)
<b>Equine Protozoal Myeloencephalitis DNA</b>	CSF (Lavender top) uncontaminated by blood	<b>EPMD</b>	Refrigerate, ship on ice	Please allow 4-5 days (Mon-Fri) for results	EPM DNA test on CSF is appropriate only if animal is symptomatic
<b>Equine Protozoal Myeloencephalitis Western Blot</b>	1 mL serum (SST or Red top) or CSF (Lavender top)	<b>EPMW</b>	Refrigerate, ship on ice	Batched and run on Tue, results in 2-3 days. Sample must be in the lab the day before in order to be included in that day's run	Can be run on EDTA plasma (Lavender top) but serum is preferred  CSF samples uncontaminated by blood can also be analyzed for EPM DNA
<b>Equine Regional Inhalant Panel</b>	3 ml serum (SST or Red top)	<b>ERIS</b>	Refrigerate, ship on ice	Referred out, please allow 4 weeks for results	Includes 44 allergens: Alternaria spp., Ash, Aspergillus spp., Bermuda Grass, Birch Mix, Blue Grass, Box Elder, Cat Hair (including dander), Cedar, Cladosporium spp., Cocklebur, Cottonwood Mix, Dermatophagoides farinae (mite), Dock, Dog Hair (including dander), Elm, Fescue Grass, Feathers (mixed), Hackberry, Hazelnut, Helminthosporium spp., Hemlock, Hickory, Johnson Grass, Lamb's-Quarters, Mexican Firebush, Mulberry, Oak Mix, Orchard Rye, Penicillium spp., Pigweed, Pine, Plantain, Ragweed (Ambrosia spp.), Redtop Grass, Rhizopus spp., Rye Grass, Sage, Sphacelotheca holci, Stemphylium spp., Sycamore, Timothy Grass, Vernal Grass, Walnut  Hyposensitization treatment extracts may be ordered through Vita-Tech for environmental allergens
<b>Equine Rotavirus Antigen</b>	3-5 g fresh feces in tightly sealed plastic jar	<b>ERV</b>	Refrigerate, ship on ice	Referred out, please allow 1 week for results	

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<b>Equine Stinging &amp; Biting Insect Panel</b>	1 ml serum (SST or Red top)	<b>ESBI</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	Includes 6 allergens: Ant (Solenopsis), Black Fly (Simulium), Deer Fly (Chrysops), Horse Fly (Tabanus), Midge/Gnat (Culicoides), Mosquito (Culex)  Hyposensitization treatment extracts may be ordered through Vita-Tech for environmental allergens
<b>Equine Tobiano DNA</b>	20-30 mane or tail hairs pulled with roots from the subject horse, attached in a business size envelope, preferred (additional charge will apply for additional offspring)	<b>TOBD</b>	Refrigerate, ship on ice	Referred out, please allow 4-6 weeks	Both parents must be Tobiano. Include 3 generation pedigree with colours and patterns marked, and colour photos of both sides of subject horse labelled with horse's name (Digital photos are accepted)
<b>Equine Viral Arteritis Antibody</b>	2 mL serum (SST or Red top)	<b>EVA</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Equine West Nile Virus DNA</b>	Brain tissue collected fresh and frozen immediately Blood is not an appropriate specimen	<b>WNVED</b>	Freeze, ship frozen on ice (mandatory)	Please allow 2-3 days (Mon-Fri) for results. Horse must first be confirmed rabies-free by CFIA	Used primarily to confirm WNV infection in dead animal  Horse must first be confirmed rabies-free by CFIA
<b>Equine West Nile Virus IgG Antibody ELISA</b>	1 mL serum (SST or Red top), or 1 mL EDTA plasma (Lavender top)	<b>WNVG</b>	Refrigerate, ship on ice	Please allow 1-2 days (Mon-Fri) for results	Positive IgG ELISA indicates past exposure or vaccination
<b>Equine West Nile Virus IgM Antibody ELISA</b>	1 mL serum (SST or Red top), or 1 mL EDTA plasma (Lavender top)	<b>WNVM</b>	Refrigerate, ship on ice	Please allow 1-2 days (Mon-Fri) for results	Positive IgM ELISA indicates recent/acute infection, although relative proportions of IgG and IgM provide a better indication (see West Nile Virus IgG & IgM)  Vaccination does not interfere with IgM ELISA
<b>Erythrocyte Sedimentation Rate</b>	2 mL EDTA whole blood (Lavender top)	<b>ESR</b>	Refrigerate, ship on ice	Run on receipt, result same day	
<b>Erythropoietin (endogenous)</b>	2 mL serum (Red top) separated from clot and frozen ASAP Specimen must not be hemolysed	<b>ERY</b>	Freeze, ship frozen on ice (mandatory)	Referred out, please allow 3 weeks for results	Morning overnight fasting sample required, collect in a Red top, leave for 30 min in refrigerator to clot, centrifuge, separate serum, freeze immediately, ship on ice  It is recommended to collect serum from a normal animal at the same time and submit for a parallel erythropoietin (no extra charge; please handle both samples the same)
<b>Estradiol</b>	1 mL serum (Red top)	<b>EST</b>	Refrigerate, ship on ice	Batched and run on Thu, results same day. Sample must be in the lab by 10am in order to be included in that day's run	For interpretation, species, sex, and age must all be provided

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Test	Specimen	Code	Storage	Schedule	Comments
<b>Fecal Alpha-1 Protease Inhibitor</b>	1 g fresh feces from each of 3 bowel movements in 3 special pre-weighed tubes, frozen immediately	<b>FAI</b>	Freeze, ship frozen on ice (mandatory)	Referred out, please allow 2-3 weeks for results	For diagnosis of Protein-Losing Enteropathy (PLE) in dogs and cats  Special pre-weighed tubes with collection instructions are available from Vita-Tech (additional charge applies)
<b>Fecal Culture, ID &amp; Sensitivities</b>	3-5 g fresh feces in Enteric Pathogen Transport Media in tightly sealed plastic jar (If Enteric Pathogen Transport Media is not available, submit a swab in aerobic transport media)	<b>FECUL</b>	Room temperature Refrigerate only if transport will be delayed >24 hours	Please allow 2 days for negative results, longer depending on growth	Indicate clinical history, antimicrobial therapy  Refrigeration will prevent recovery of Campylobacter jejuni  Collect specimen, if possible, prior to antimicrobial therapy
<b>Fecal Culture, ID &amp; Sensitivities + Clostridium</b>	3-5 g fresh feces in Enteric Pathogen Transport Media in tightly sealed plastic jar (If Enteric Pathogen Transport Media is not available, submit a swab in aerobic transport media)	<b>STMC</b>	Room temperature Refrigerate only if transport will be delayed >24 hours	Please allow 2 days for negative results, longer depending on growth	Indicate clinical history, antimicrobial therapy  Refrigeration will prevent recovery of Campylobacter jejuni  Collect specimen, if possible, prior to antimicrobial therapy  If Clostridium perfringens is isolated, please resubmit fresh feces without preservative for Clostridium perfringens Enterotoxin A ELISA at no additional charge
<b>Fecal Fat</b>	3-5 g fresh feces in tightly sealed plastic jar	<b>FF</b>	Refrigerate, ship on ice	Please allow 24 hours (Mon-Fri) for results	Qualitative Analysis
<b>Fecal Flotation</b>	3-5 g fresh feces in tightly sealed plastic jar (SAF may be used, fresh feces preferred)	<b>FLT</b>	Refrigerate, ship on ice	Please allow 1-2 days (Mon-Fri) for results	
<b>Fecal Occult Blood</b>	3-5 g fresh feces in tightly sealed plastic jar	<b>FOB</b>	Refrigerate, ship on ice	Same day	Qualitative Analysis  Feeding canned food containing beef, mutton, or venison may cause false positive results
<b>Fecal Starch</b>	3-5 g fresh feces in tightly sealed plastic jar	<b>FS</b>	Refrigerate, ship on ice	Please allow 1-2 days (Mon-Fri) for results	Qualitative analysis
<b>Fecal Trypsin</b>	3-5 g fresh feces in tightly sealed plastic jar	<b>FT</b>	Refrigerate, ship on ice	Same day	Qualitative Analysis  TLI is the test of choice for diagnosis of exocrine pancreatic insufficiency (EPI)

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Test	Specimen	Code	Storage	Schedule	Comments
<b>Feline Blood Typing</b>	1 mL EDTA whole blood (Lavender top)	<b>BTF</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	Feline blood products for transfusion are not available from Vita-Tech
<b>Feline Calicivirus Antibody Titer</b>	1 mL serum (SST or Red top)	<b>FCA</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Feline Calicivirus DNA</b>	Oropharyngeal or lesion swab in sterile container without transport media, or tissue in sterile container	<b>FCD</b>	Refrigerate, ship on ice	Referred out, please allow 1 week for results	Samples should be collected prior to commencing antiviral therapy
<b>Feline Coronavirus DNA</b>	Feces in sterile container, or tissue (intestine) in sterile container, or effusion fluid in tightly sealed sterile	<b>FCVD</b>	Refrigerate, ship on ice	Referred out, please allow 1 week for results	1 mL EDTA whole blood (Lavender top) may be submitted, but is not the preferred specimen
<b>Feline Direct Coombs</b>	2 mL EDTA whole blood (Lavender top)	<b>FDC</b>	Refrigerate, ship on ice	Run on receipt, result same day	
<b>Feline E Screen</b>	0.5 mL serum (SST or Red top)	<b>FES</b>	Refrigerate, ship on ice	Please allow 1-2 days (Mon-Fri) for results	Screens for environmental allergens only
<b>Feline Environmental Panel</b>	3 mL serum (SST or Red top)	<b>FEP</b>	Refrigerate, ship on ice	Please allow 1 week for results	Includes 48 allergens: Alternaria tenuis, American Cockroach, American Elm, American Sycamore, Aspergillus fumigatus, Bayberry Wax Myrtle, Bermuda Grass, Black Birch, Black Walnut, Box Elder, Burweed Marsh Elder, Cat Epithelium, Cladosporium sphaerospermum, Common Cocklebur, Dermatophytes farinae (mite), Dermatophytes pteronyssinus (mite), Eastern Cottonwood, English Plantain, Flea Saliva, Fusarium roseum, Johnson Grass, June Bluegrass, Kochia, Lamb's-Quarters, Meadow Fescue, Mugwort, Orchard Grass, Penicillium notatum/chrysogenum, Perennial Rye Grass, Quaking Aspen, Red Cedar, Red Mulberry, Redtop Grass, Rough Marsh Elder, Rough Pigweed, Russian Thistle, Shagbark Hickory, Short Ragweed, Smooth Brome, Sugar Maple, Sweet Vernal, Tall Ragweed, Timothy Grass, Tyrophagus putrescentiae (mite), White Ash, White Oak, Yellow Dock, Yellow Pine  Hyposensitization treatment extracts may be ordered through Vita-Tech for environmental allergens

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Test	Specimen	Code	Storage	Schedule	Comments
<b>Feline Food Panel</b>	1 mL serum (SST or Red top)	<b>FFP</b>	Refrigerate, ship on ice	Referred out, please allow 1 week for results	Includes 24 allergens: Barley, Brewer's Yeast, Cooked Beef, Cooked Chicken, Cooked Corn, Cooked Fish Mix (Cod, Halibut, Tuna), Cooked Lamb, Cooked Pork, Cooked Rice, Milk, Potato, Rabbit, Soybean, Turkey, Venison, Wheat Grain, Whey, Whole Egg  Hyposensitization treatment extracts for food allergens are not available
<b>Feline Heartworm Antibody</b>	0.5 mL serum (SST or Red top) or 1 mL EDTA whole blood (Lavender top)	<b>FHWAB</b>	Refrigerate, ship on ice	Same day	
<b>Feline Herpesvirus Antibody Titer IFA</b>	1 mL serum (SST or Red top)	<b>FHAB</b>	Refrigerate, ship on ice	Batched and run on Tue and Thu, results same day. Sample must be in the lab by 10am in order to be included in that day's run	Please specify if endpoint titer is required (additional charge would apply)
<b>Feline Herpesvirus Endpoint Titer IFA</b>	1 mL serum (SST or Red top)	<b>EPFHV</b>	Refrigerate, ship on ice	Batched and run on Tue and Thu, results same day. Sample must be in the lab by 10am in order to be included in that day's run	
<b>Feline Lyme Disease Antibody IFA</b>	1 mL serum (SST or Red top)	<b>LDFI</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	Wait 4 weeks after tick exposure before testing  Does not distinguish between vaccination and infection
<b>Feline Mycoplasma felis DNA</b>	Deep pharyngeal swab with visible organic material on swab (please rub firmly) and a conjunctival swab (wipe eye clean, swab inside of eyelid). Please submit dry, plastic-stemmed swabs, without transport media, in the same serum tube or in an empty, sterile tube; keep refrigerated.	<b>FMPD</b>	Refrigerate, ship on ice	Referred out, please allow 1 week for results	Samples should be collected prior to commencing antimicrobial therapy

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<b>Feline Panleukopenia DNA</b>	1 mL EDTA whole blood (Lavender top), or feces in tightly sealed sterile plastic jar	<b>FPD</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results	Does not distinguish between wild type and vaccine  After immunization with modified live Panleukopenia virus vaccine, viral DNA from the vaccine may be detected in circulation and in feces for 2-3 weeks
<b>Feline Panleukopenia Endpoint Titer IFA</b>	1 mL serum (SST or Red top)	<b>EPFP</b>	Refrigerate, ship on ice	Batched and run on Tue and Thu, results same day. Sample must be in the lab by 10am in order to be included in that day's run	
<b>Feline Panleukopenia Vaccine Titer IFA</b>	1 mL serum (SST or Red top)	<b>FPVT</b>	Refrigerate, ship on ice	Batched and run on Tue and Thu, results same day. Sample must be in the lab by 10am in order to be included in that day's run	Please specify if endpoint titer is required (additional charges would apply)
<b>Feline Parentage</b>	Buccal swab using a sterile cytology brush	<b>APF</b>	Refrigerate, ship on ice	Referred out, please allow 4 weeks for results	Samples should be submitted from dam, offspring, and possible sire (charge applies per sample)
<b>Feline PLI Pancreatic Lipase Immunoreactivity</b>	1 mL serum (SST or Red top)	<b>FPLI</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	Fasting specimen recommended  Test of choice for pancreatic inflammatory disease
<b>Feline Polycystic Kidney Disease DNA</b>	2 Buccal swabs using a sterile cytology brush	<b>FPKD</b>	Room temperature	Referred out, please allow 4-6 weeks for results	Includes DNA fingerprint  Available for: Persian, Exotic, Himalayan, Persian first generation outcrosses
<b>Feline Pregnancy (Relaxin)</b>	1 mL serum (SST or Red top), or 1 mL EDTA plasma (Lavender top), or 1 mL heparinized plasma (Green top)	<b>FPT</b>	Refrigerate, ship on ice	Same day	Test any time after 20-31 days post-breeding  In cats, pregnancy is indicated by a rise in relaxin to detectable levels 20-31 days post-breeding  Relaxin levels remain elevated throughout pregnancy  Re-test after day 31 if a previous result was Negative
<b>Feline TLI Trypsin-Like Immunoreactivity</b>	1 mL serum (SST or Red top)	<b>FTLI</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	12 hr fasting specimen required (water is permitted)  Test of choice for exocrine pancreatic insufficiency (EPI)

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Test	Specimen	Code	Storage	Schedule	Comments
<b>Feline Urine Microalbumin</b>	2 mL urine in tightly sealed sterile plastic jar without preservative	<b>FUMA</b>	Refrigerate, ship on ice	Same day	<p>Urinalysis should also be performed to check for pyuria and hematuria (pyuria and 3+ or 4+ hematuria can cause false high values)</p> <p>Persistent microalbuminuria (Positive on at least 2 of 3 samples acquired 2 weeks apart) is indicative of nephron damage and in the absence of hematuria, pyuria, or azotemia supports a diagnosis of early renal disease</p> <p>Microalbumin is the test of choice for urines with negative protein on dipstick</p> <p>Urine Protein/Creatinine Ratio is the test of choice for urines with positive protein on dipstick</p>
<b>FeLV Antigen ELISA</b>	0.5 mL serum (SST or Red top), or 1 mL EDTA whole blood (Lavender top)	<b>FELV</b>	Refrigerate, ship on ice	Same day	<p>There is no minimum age for testing by FeLV Antigen ELISA</p> <p>Results not affected by vaccination</p> <p>Does not distinguish between transient or early viremia and viremia due to established infection</p>
<b>FeLV Antigen IFA</b>	1 mL EDTA whole blood (Lavender top)	<b>FELVI</b>	Refrigerate, ship on ice	Batched and run on Tue and Thu, results same day. Sample must be in the lab by 10am in order to be included in that day's run	<p>Results not affected by vaccination</p> <p>Detects established intracellular infection, not transient or early viremia</p> <p>Bone marrow or lymphoid tissue can also be tested</p>
<b>FeLV DNA</b>	1 mL EDTA whole blood (Lavender top)	<b>FELVD</b>	Refrigerate, ship on ice	Run daily (Mon-Fri). Results in 2-3 days (Mon-Fri)	<p>Results not affected by vaccination</p> <p>Detects established intracellular infection, not transient or early viremia</p> <p>Bone marrow or lymphoid tissue can also be tested</p>
<b>Ferret Adrenal Panel</b>	0.5 mL serum (Red top) separated from clot and frozen ASAP	<b>FAP</b>	Freeze, ship frozen on ice (mandatory)	Referred out, please allow 3 weeks for results	Includes: Estradiol, Androstenedione, 17-hydroxyprogesterone
<b>Ferritin</b>	1 mL serum (SST or Red top) separated from clot and frozen ASAP	<b>FERR</b>	Freeze, ship frozen on ice (mandatory)	Referred out, please allow 2 weeks for results	

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<b>Fibrin Degradation Products</b>	1 mL sodium citrate plasma (Blue top), or 1 mL EDTA plasma (Lavender top) Full draw is mandatory on Blue top (2/3 to 3/4 full) See Notes	<b>FDP</b>	Refrigerate, ship on ice	ASAP (Same day)	If testing will be delayed >4 hr, centrifuge, separate plasma into a plain tube, freeze, ship on ice
<b>Fibrinogen</b>	1 mL sodium citrate plasma (Blue top), or 1 mL EDTA plasma (Lavender top) Full draw is mandatory on Blue top (2/3 to 3/4 full) See Notes	<b>FIB</b>	Refrigerate, ship on ice	Run on receipt, result same day	Fasting sample recommended  Incorrect blood to anticoagulant ratio will falsely prolong clotting times (blood to anticoagulant ratio must be 9:1)
<b>FIPV Antibody Titer IFA</b>	1 mL serum (SST or Red top)	<b>FIPVI</b>	Refrigerate, ship on ice	Batched and run on Tue and Thu, results same day. Sample must be in the lab by 10am in order to be included in that day's run	Please specify if endpoint titer is required (additional charge would apply)
<b>FIPV DNA</b>	1 mL EDTA whole blood (Lavender top) or body cavity fluid in sterile container	<b>FIPVD</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results	Will distinguish between strains more likely or less likely to cause FIP disease
<b>FIPV Endpoint Titer IFA</b>	1 mL serum (SST or Red top)	<b>EPFIPV</b>	Refrigerate, ship on ice	Batched and run on Tue and Thu, results same day. Sample must be in the lab by 10am in order to be included in that day's run	
<b>FIV Antibody ELISA</b>	0.5 mL serum (SST or Red top) or 1 mL EDTA whole blood (Lavender top)	<b>FIV</b>	Refrigerate, ship on ice	Same day	Does not distinguish between vaccine and infection  Kittens should be at least 5 months of age before testing by FIV Antibody ELISA
<b>FIV Antibody Western Blot</b>	1 mL serum (SST or Red top)	<b>WBFIV</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	Does not distinguish between vaccine and infection
<b>FIV DNA</b>	1 mL EDTA whole blood (Lavender top)	<b>FIVD</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results	Distinguishes between vaccination and infection (see FIV DNA)  Bone marrow or lymphoid tissue can also be tested

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Test	Specimen	Code	Storage	Schedule	Comments
<b>Foal IgG</b>	1 mL serum (SST or Red top) or 1 mL EDTA plasma (Lavender top)	<b>EIGG</b>	Refrigerate, ship on ice	Run on receipt, result same day	
<b>Folate</b>	1 mL serum (SST or Red top)	<b>FOL</b>	Refrigerate, ship on ice	Batched and run on Mon, Wed and Fri, results same day. Sample must be in the lab by 10am in order to be included in that day's run	Post prandial values may be elevated, fasting sample strongly recommended  Sensitive to hemolysis due to release of Folate from erythrocytes (serum should be separated from the clot, a centrifuged SST is ideal)
<b>Follicle Stimulating Hormone</b>	1 mL serum (Red top) Serum from an SST is not recommended	<b>FSH</b>	Refrigerate, ship on ice	Referred out, please allow 3-4 weeks for results	
<b>Follow-up Test Resubmission for Aerobic Culture</b>	Same Aerobic Culture specimen as the previous submission	<b>FUT</b>	Refrigerate swab if transport will be delayed >48 hours Refrigerate urine, tissue, fluid, ship on ice	Please allow 2 days for negative results, longer depending on growth	Sample for Aerobic Culture of the same type as the original, taken from the same animal, and submitted within 30 days of the original submission  Please indicate the previous lab number on the requisition form  Indicate source of specimen, clinical history, antimicrobial therapy, suspected disease  Please specify method of urine collection (free catch, catheter, cystocentesis)
<b>Fractional Clearance of Calcium</b>	1 mL serum (SST or Red top), plus 1 mL urine in tightly sealed sterile plastic jar	<b>FCAL</b>	Refrigerate, ship on ice	Run on receipt, result same day	
<b>Fractional Clearance of Phosphorus</b>	1 mL serum (SST or Red top), plus 1 mL urine in tightly sealed sterile plastic jar	<b>FPHO</b>	Refrigerate, ship on ice	Run on receipt, result same day	
<b>Fractional Clearance of Sodium, Potassium, and Chloride</b>	1 mL serum (SST or Red top), plus 1 mL urine in tightly sealed sterile plastic jar	<b>FISE</b>	Refrigerate, ship on ice	Run on receipt, result same day	
<b>Free T4 Chemiluminescent method</b>	1 mL serum (Monoject CORVAC SST or Red top)	<b>FT4</b>	Refrigerate, ship on ice	Run on receipt, result same day	Free T4 chemiluminescent method is available for dogs only
<b>Free T4 Equilibrium Dialysis Radioimmunoassay</b>	1 mL serum (Monoject CORVAC SST or Red top)	<b>FT4ED</b>	Refrigerate, ship on ice	Referred out, please allow 1 week for results	Equilibrium Dialysis method separates Free T4 from bound T4 and from interfering proteins such as T4 binding proteins and autoantibodies

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Test	Specimen	Code	Storage	Schedule	Comments
<b>Free T4 Two-step Radioimmunoassay</b>	1 mL serum (Monoject CORVAC SST or Red top)	<b>EFT4</b>	Refrigerate, ship on ice	Batched and run daily (Mon-Fri), results same day. Sample must be in the lab by 10am in order to be included in that day's run	Two-step method separates Free T4 from bound T4 and from interfering proteins such as T4 binding proteins and autoantibodies  Free T4 Two-step Radioimmunoassay is available for dogs only
<b>Fructosamine</b>	1 mL serum (SST or Red top)	<b>FRUC</b>	Refrigerate, ship on ice	Run on receipt, result same day	Fructosamine (glycosylated serum proteins) reflects blood glucose levels over previous 2-3 weeks, allowing monitoring of treatment compliance in diabetic patients  For interpretation species, sex, and age must all be provided
<b>Fungal Culture</b>	Skin scrapings or hairs with follicles or nails with nail bed scrapings in sealed fungal envelope or sterile container, or aspirated purulent material in sterile container, or tissue in sterile container	<b>FCUL</b>	Room temperature	Please allow 14 days for negative results, longer depending on growth	Samples for invasive systemic fungi should also be submitted for Histopathology or Cytology
<b>Gamma Glutamyl Transferase</b>	0.5 mL serum (SST or Red top)	<b>GGT</b>	Refrigerate, ship on ice	Run on receipt, result same day	
<b>Giardia Antigen ELISA</b>	3-5 g fresh feces in tightly sealed plastic jar, or 3-5 g fresh feces in SAF in tightly sealed plastic jar	<b>GIAG</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results	Fresh unfrozen feces must be received with 24 hours (may be preserved longer by freezing and shipping on ice)  Animals testing positive should be retested 7-10 days after completion of treatment
<b>Glanders Complement Fixation</b>	2 mL serum (SST or Red top)	<b>GCF</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Globulin</b>	0.5 mL serum (SST or Red top)	<b>GLO</b>	Refrigerate, ship on ice	Run on receipt, result same day	Calculated at no charge along with Albumin/Globulin Ratio whenever Albumin and Total Protein are run
<b>Glucose</b>	0.5 mL serum (centrifuged SST), or 0.5 mL sodium fluoride/potassium oxalate plasma (Grey top)	<b>GLU</b>	Refrigerate, ship on ice	Run on receipt, result same day	Post prandial values may be elevated, fasting sample strongly recommended  SST must be centrifuged after being allowed 20 minutes to clot, gel must completely separate clot and serum  Grey tops should have at least 1 mL of blood drawn or resulting hemolysis may cause falsely elevated results  Sodium fluoride suppresses but does not stop glucose metabolism

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Test	Specimen	Code	Storage	Schedule	Comments
<b>Gram's Stain</b>	Air-dried smear, or tissue, feces, fluid or swab in sterile container	<b>GRAM</b>	Refrigerate fluids, ship on ice. Submit slides in slide holders	Please allow 24 hours for results	
<b>HDL Cholesterol</b>	1 mL serum (SST or Red top)	<b>HDLC</b>	Refrigerate, ship on ice	Referred out, please allow 1 week for results	Post prandial values may be elevated, fasting sample strongly recommended
<b>Heartworm DNA</b>	2 mL EDTA whole blood (Lavender top)	<b>HWD</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results	
<b>Heartworm Filter</b>	1 mL EDTA whole blood (Lavender top)	<b>HWF</b>	Refrigerate, ship on ice	Please allow 24 hours for results	Include microchip number and destination and date of sample collection if testing for export  Positive HW Filter is reported as number of microfilariae per 1 mL blood
<b>Hemobartonella (Hemoplasma) Smear</b>	1 mL EDTA whole blood (Lavender top), plus unstained air-dried smear from fresh EDTA whole blood	<b>HMB</b>	Refrigerate, ship on ice Submit slides in slide holders (room temperature)	Run on receipt, result same day	Parasite will detach as Lavender top specimen ages, unstained air-dried smear prepared from fresh EDTA whole blood must be submitted  Hemobartonella felis (Hemoplasma) DNA is an alternative test which can be run on aged blood with no smear required
<b>Hemobartonella felis (Hemoplasma) DNA</b>	1 mL EDTA whole blood (Lavender top)	<b>HMBD</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results	
<b>Histoplasma capsulatum Antibody part of Fungal Serology Panel</b>	1 mL serum (SST or Red top)	<b>HPAB</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>IgA Immunoglobulin</b>	1 mL serum (SST or Red top)	<b>IGA</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	Available for Bovine, Canine, Equine only
<b>IgG Immunoglobulin</b>	1 mL serum (SST or Red top)	<b>IGG</b>	Refrigerate, ship on ice	Referred out, please allow 2 week for results	Available for Bovine, Canine, Equine, Feline
<b>IgM Immunoglobulin</b>	1 mL serum (SST or Red top)	<b>IGM</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	Available for Bovine, Canine, Equine only
<b>Immunoglobulin Quantitation IgA, IgG, IgM</b>	1 mL serum (SST or Red top)	<b>IGAGM</b>	Refrigerate, ship on ice	Referred out, please allow 2 week for results	Available for Bovine, Canine, Equine only  For Felines, only IgG Immunoglobulin is available
<b>Inhibin</b>	3 mL serum (SST or Red top)	<b>INH</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Insulin</b>	1 mL serum (Red top)	<b>INS</b>	Refrigerate, ship on ice	Referred out, please allow 1 week for results	Recommend freezing serum and shipping on ice  If you have questions regarding fasting requirements for insulin testing, please contact one of our pathologists

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Test	Specimen	Code	Storage	Schedule	Comments
<b>International Normalized Ratio</b>	1 mL sodium citrate plasma (Blue top) Full draw is mandatory (2/3 to 3/4 full) See Notes	<b>INR</b>	Refrigerate, ship on ice	Run on receipt, result same day	INR will be calculated at no additional charge if requested whenever Prothrombin Time is ordered  Fasting specimen recommended  If testing will be delayed >4 hr, centrifuge, separate citrated plasma into a plain tube, freeze, ship on ice  Large animal submissions must be accompanied by a control specimen (a Blue top drawn from a healthy animal and handled the same as the patient specimen)  Incorrect blood to anticoagulant ratio will falsely prolong clotting times (blood to anticoagulant ratio must be 9:1)
<b>Ionized Calcium</b>	1 mL frozen serum (SST or Red top)	<b>ICAL</b>	Separate and freeze serum, ship frozen on ice (mandatory)	Referred out, please allow 1 week for results	Morning collection of overnight fasting specimen recommended
<b>Iron</b>	1 mL serum (SST or Red top)	<b>IRO</b>	Refrigerate, ship on ice	Run on receipt, result same day	Sensitive to hemolysis due to release of hemoglobin from erythrocytes (serum should be separated from the clot, a centrifuged SST is ideal)
<b>ISE Panel Sodium, Potassium, Chloride, Na/K Ratio</b>	0.5 mL serum (SST or Red top)	<b>ISE</b>	Refrigerate, ship on ice	Run on receipt, result same day	Chloride, Potassium, Sodium are run together and cannot be ordered separately  Sodium/Potassium Ratio is also provided
<b>Itraconazole</b>	1 mL EDTA plasma (Lavender top)	<b>ITR</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>KOH Preparation</b>	Skin scrapings or hairs with follicles or nails with nail bed scrapings in sealed fungal envelope or sterile container	<b>KOH</b>	Room temperature	Please allow 24 hours (Mon-Fri) for results	
<b>Lactate</b>	3 mL sodium fluoride/potassium oxalate plasma (Grey top)	<b>LA</b>	Refrigerate, ship on ice	Referred out, please allow 1 week for results	
<b>Lactate &amp; Pyruvate (Pre &amp; Post Exercise)</b>	Please call customer service for sample submission instructions	<b>LAPY</b>	Separate and freeze plasma, ship frozen on ice (mandatory)	Referred out, please allow 2 weeks for results	
<b>Lactate Dehydrogenase</b>	0.5 mL serum (SST or Red top)	<b>LDH</b>	Refrigerate, ship on ice	Run on receipt, result same day	Do not freeze serum (freezing will reduce LDH results)  Sensitive to hemolysis due to release of LDH from erythrocytes (serum should be separated from the clot, a centrifuged SST is ideal)

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Test	Specimen	Code	Storage	Schedule	Comments
<b>Lawsonia intracellularis DNA</b>	Feces in tightly sealed sterile plastic jar	<b>LID</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Lead</b>	1 mL EDTA or heparinized whole blood (Lavender top or Green top), or 10 g liver or kidney tissue in tightly sealed plastic jar, or stomach contents in tightly sealed plastic jar Avian: 0.5 mL heparinized whole blood (Green top microtainer)	<b>LEA</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Leishmania infantum Antibody IFA</b>	1 mL serum (SST or Red top)	<b>LIAB</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	Include microchip number and destination and date of sample collection if testing for export
<b>Leishmania Smear</b>	1 mL EDTA whole blood (Lavender top), or unstained air-dried smear	<b>LEIS</b>	Refrigerate, ship on ice Submit slides in slide holders (room temperature)	Please allow 2 days (Mon-Fri) for results	
<b>Leptospira canicola Microagglutination</b>	1 mL serum (SST or Red top)	<b>LEPC</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	Include microchip number and destination and date of sample collection if testing for export
<b>Leptospira Serovars Antibody Titers</b>	1 ml serum (SST or Red top)	<b>LEAB</b>	Refrigerate, ship on ice	Referred out, please allow 1-2 week for results	Leptospira canicola Leptospira pomona Leptospira grippotyphosa Leptospira icterohaemo Leptospira bratislava Leptospira autumnalis
<b>Leptospira spp. DNA</b>	1 mL urine in tightly sealed sterile plastic jar or tissue (kidney, liver) in sterile container	<b>LEPD</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results	Samples must be collected prior to commencing antibiotic therapy
<b>Lethal White Foal Allele</b>	15-20 plucked mane hairs with follicle	<b>LWFAD</b>	Room temperature	Referred out, please allow 2 weeks for results	
<b>Lipase</b>	0.5 mL serum (SST or Red top)	<b>LIP</b>	Refrigerate, ship on ice	Run on receipt, result same day	
<b>Listeria monocytogenes DNA</b>	Feces in tightly sealed plastic jar	<b>LMD</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results	

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<b>Listeria spp. DNA</b>	Feces in tightly sealed plastic jar	<b>LISD</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results	
<b>Luteinizing Hormone</b>	1 mL serum (Red top) Serum from an SST is not recommended	<b>LH</b>	Refrigerate, ship on ice	Referred out, please allow 3-4 weeks for results	
<b>Lyme Disease DNA</b>	Tick in clean container without preservative, skin or muscle biopsy in sterile container, joint fluid in Red Top, or 1 mL EDTA whole blood in Lavender Top	<b>LDD</b>	Tick at room temperature Tissue/fluid/blood refrigerate, ship on ice	Please allow 3-4 days (Mon-Fri) for results	
<b>Maedi-visna Antibody AGID</b>	1 mL serum (SST or Red top)	<b>MV</b>	Refrigerate, ship on ice	Please allow 3-5 days (Mon-Fri) for results	
<b>Magnesium</b>	1 mL serum (SST or Red top)	<b>MAG</b>	Refrigerate, ship on ice	Run on receipt, result same day	Sensitive to hemolysis due to release of magnesium from erythrocytes (serum should be separated from the clot, a centrifuged SST is ideal)
<b>Manual Cell Count (CSF)</b>	CSF in a Lavender top without formalin	<b>CCM</b>	Refrigerate, ship on ice	Run on receipt, result same day	Cytology must be ordered if morphological assessment is required
<b>Mare Pregnancy (PMSG)</b>	2 mL serum (Red top) Serum from an SST is not recommended	<b>MP</b>	Refrigerate, ship on ice	Batched and run daily Mon-Fri, results same day. Sample must be in the lab by 10am in order to be included in that day's run	Draw specimen at 40-90 days post-breeding  For mare pregnancy testing >90 days post breeding use Total Estrogens
<b>Mare Pregnancy (Total Estrogens)</b>	2 mL serum (Red top) Serum from an SST is not recommended	<b>TE</b>	Refrigerate, ship on ice	Referred out, please allow 1 week for results	As an indicator of pregnancy or of fetal well-being, collect sample no sooner than 90 days post-breeding  For pregnancy testing 40-90 days post-breeding see Mare Pregnancy (PMSG)
<b>Methemoglobin</b>	2 mL EDTA whole blood (Lavender top)	<b>METHB</b>	Refrigerate, ship on ice	Referred out, please allow 1 week for results	
<b>Methicillin Resistant Staphylococcus aureus</b>	Nasal swab in aerobic transport media	<b>MRSA</b>	Refrigerate swab if transport will be delayed >48 hours	Please allow 3 days for negative results, longer depending on growth	Indicate source of specimen, clinical history, antimicrobial therapy, suspected disease  Collect specimen, if possible, prior to antimicrobial therapy  Vita-Tech provides swabs in Modified Amies Clear transport media (Star Swab II) that are appropriate for both aerobic and anaerobic culture
<b>Microprotein (CSF)</b>	CSF in a Lavender top without formalin	<b>CMP</b>	Refrigerate, ship on ice	Run on receipt, result same day	

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Test	Specimen	Code	Storage	Schedule	Comments
<b>Mycoplasma spp. DNA</b>	Lung tissue, joint tissue or swabs from airway (nasal or tracheal)  Tissues are generally better than swabs Avian specimen: see Notes	<b>MPD</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	Samples should be collected prior to commencing antimicrobial therapy  Avian specimen: 50-100 uL whole blood (Green or Lavender top) or few drops blood on avian specimen card, plus cloacal swab in sterile container without transport media  Tissue can be submitted in sterile container frozen without formalin Freeze tissue immediately, ship on ice, dry ice if possible, must arrive at lab frozen  Do not submit whole birds
<b>Neonatal Isoerythrolysis</b>	2 mL serum (Red top) If the mare has had a previous NI foal, please send 5 mL EDTA whole blood (Lavender top) as well	<b>NI</b>	Refrigerate, ship on ice	Referred out, please allow 1-2 weeks for results	Screening for pregnant mare prior to birthing to assess risk to foal
<b>Non-Esterified Fatty Acids</b>	0.5 mL serum (SST or Red top)	<b>NEFA</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Osmolality serum</b>	1 mL serum (SST or Red top)	<b>SOSM</b>	Refrigerate, ship on ice	Referred out, please allow 1 week for results	
<b>Osmolality urine</b>	1 mL urine in tightly sealed sterile plastic jar or plain Red top tube	<b>UOSM</b>	Refrigerate, ship on ice	Referred out, please allow 1 week for results	
<b>Ova and Parasites (sedimentation concentration)</b>	3-5 g fresh feces in SAF in tightly sealed plastic jar	<b>OP</b>	Room temperature	Please allow 2-3 days (Mon-Fri) for results	
<b>Ovine Pseudorabies Antibody</b>	1 mL serum (SST or Red top)	<b>OPR</b>	Refrigerate fluids, ship on ice	Referred out, please allow 2 weeks for results	

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Test	Specimen	Code	Storage	Schedule	Comments
<b>Pathologist's Comment CBC Full or Urinalysis must also be ordered</b>	1-2 mL EDTA whole blood (Lavender top) plus unstained air-dried smear OR 1-10 mL urine in tightly sealed sterile plastic jar without preservative, plus unstained air-dried smear from sediment	<b>PCOMM</b>	Refrigerate, ship on ice Please submit slides in slide holders	Please allow 1-2 days (Mon-Fri) for results	If ordering Pathologist's Comment on urine, Urinalysis must also be ordered  If ordering Pathologist's Comment on peripheral blood, CBC Full must also be ordered  Include history and clinical signs, meds and response to therapy  Please note: At VITA-TECH all blood smears and urine sediments are reviewed by qualified and trained technologists. Further review is performed by a Pathologist on blood smears and urine sediments meeting pre-determined criteria at no additional charge.
<b>Phenobarbital</b>	0.5 mL serum (SST or Red top) Serum from a plain Red top tube is recommended for therapeutic drug monitoring	<b>PHE</b>	Refrigerate, ship on ice	Run on receipt, result same day	Collect sample just before next dose  Serum, especially small volumes of serum, that have been stored in SSTs for >2 days, should not be submitted for Phenobarbital
<b>Phosphofructokinase Deficiency DNA</b>	1 mL EDTA whole blood (Lavender top)	<b>PFKD</b>	Refrigerate, ship on ice	Referred out, please allow 4 weeks for results	Available for the following breeds: American Cocker Spaniel, English Springer Spaniel
<b>Phosphorus</b>	0.5 mL serum (SST or Red top)	<b>PHO</b>	Refrigerate, ship on ice	Run on receipt, result same day	Sensitive to hemolysis due to release of phosphorus from erythrocytes (serum should be separated from the clot, a centrifuged SST is ideal)
<b>Piroplasmosis ELISA</b>	1 mL serum (SST or Red top)	<b>PIRO</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	Includes Babesia caballi ELISA and Babesia equi ELISA
<b>Platelet Count</b>	1 mL EDTA whole blood (Lavender top)	<b>PLC</b>	Refrigerate, ship on ice	Run on receipt, result same day	
<b>Porcine Parvovirus Antibody</b>	1 mL serum (SST or Red top)	<b>PPV</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Porcine Pseudorabies Antibody</b>	1 mL serum (SST or Red top)	<b>PPR</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Porcine Stress Syndrome DNA (HAL 1843)</b>	2 mL EDTA whole blood (Lavender top), or muscle tissue in sterile container frozen without formalin	<b>PSSD</b>	Refrigerate, ship on ice. Freeze tissue immediately, ship on ice (dry ice if possible), must arrive at lab frozen	Please allow 1 week for results	

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Test	Specimen	Code	Storage	Schedule	Comments
<b>Potassium part of ISE Panel</b>	0.5 mL serum (SST or Red top)	<b>POT</b>	Refrigerate, ship on ice	Run on receipt, result same day	For Potassium, ISE Panel must be ordered  ISE Panel includes Sodium, Potassium, Sodium/Potassium Ratio, and Chloride  Sensitive to hemolysis due to release of potassium from erythrocytes. This especially true in certain species and breeds: horses, cattle, sheep, Akitas and related breeds, some Shar Peis. Serum should separated from the clot, a centrifuged SST is ideal
<b>Potomac Horse Fever Antibody IFA</b>	2 mL serum (SST or Red top)	<b>PHF</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Primate Parentage</b>	3 mL EDTA whole blood (Lavender top)	<b>APP</b>	Refrigerate, ship on ice	Referred out, please allow 4 weeks for results	Samples should be submitted from dam, offspring, and possible sire (charge applies per sample)
<b>Progesterone</b>	1 mL serum (Red top)	<b>PROG</b>	Refrigerate, ship on ice	Run on receipt. Results same day	For interpretation species, sex, and age must all be provided
<b>Progressive Retinal Atrophy DNA</b>	Buccal swab using a sterile cytology brush	<b>PRAD</b>	Refrigerate, ship on ice	Referred out, please allow 4 weeks for results	Available for the following breeds: Irish Setter
<b>Protein (Total)</b>	0.5 mL serum (SST or Red top)	<b>TP</b>	Refrigerate, ship on ice	Run on receipt, result same day	Sensitive to hemolysis due to release of proteins from erythrocytes (serum should separated from the clot, a centrifuged SST is ideal)
<b>Prothrombin Time</b>	1 mL sodium citrate plasma (Blue top) Full draw is mandatory (2/3 to 3/4 full) See Notes	<b>PT</b>	Refrigerate, ship on ice	Run on receipt, result same day	INR will be calculated at no additional charge if requested  Fasting specimen recommended  If testing will be delayed >4 hr, centrifuge, separate citrated plasma into a plain tube, freeze, ship on ice  Large animal submissions must be accompanied by a control specimen (a Blue top drawn from a healthy animal and handled the same as the patient specimen)  Incorrect blood to anticoagulant ratio will falsely prolong clotting times (blood to anticoagulant ratio must be 9:1)
<b>PRRS Antibody</b>	1 mL serum (SST or Red top)	<b>PRRS</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>PTH Parathyroid Hormone</b>	1 mL frozen serum (SST or Red top)	<b>PTH</b>	Separate and freeze serum, ship frozen on ice (mandatory)	Referred out, please allow 1-2 weeks for results	Morning collection of overnight fasting specimen recommended  Serum must be separated from the clot and frozen immediately and it must arrive at the lab still frozen
<b>PTH Related Protein</b>	1 mL frozen EDTA plasma (Lavender top)	<b>PRP</b>	Separate and freeze plasma, ship frozen on ice (mandatory)	Referred out, please allow 2 weeks for results	Morning collection of overnight fasting specimen recommended

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Test	Specimen	Code	Storage	Schedule	Comments
<b>Pyruvate Kinase Deficiency DNA</b>	1 mL EDTA whole blood (Lavender top)	<b>PKDD</b>	Refrigerate, ship on ice	Referred out, please allow 3-4 weeks for results	Available for the following canine breeds: Basenji, Beagle, Eskimo, Chihuahua, Dachshund, West Highland White, Cairn Terrier  Available for the following feline breeds: Abyssinian, Somali, Domestic Short Hair
<b>Rabies Antibody Titer for export</b>	1 mL serum (SST or Red top) 2 mL serum if both tests are required	<b>RAB</b>	Refrigerate, ship on ice	Referred out, please allow 4-6 weeks for results	Include microchip number and destination and date of sample collection if testing for export  Allow 3-4 weeks after immunization for the animal to mount an adequate immune response before collecting sample
<b>Rabies Vaccine Titer not for export</b>	1 mL serum (SST or Red top)	<b>RABV</b>	Refrigerate, ship on ice	Referred out, please allow 3-4 weeks for results	Allow 3-4 weeks after immunization for the animal to mount an adequate immune response before collecting sample
<b>Radiology</b>	Radiographic films	<b>RADI</b>	Envelope	Please allow 2-3 days (Mon-Fri) for results	
<b>Radiology: Elbow Certification</b>	Radiographic films	<b>ELBC</b>	Envelope	Please allow 3 - 5 weeks for results	Dog must be 18 months or older  Include completed Radiology Requisition form which lists required views and additional information  Include DOB, copy of CKC Registration, tattoo and/or microchip #, owner's name & address, date x-rays were taken
<b>Radiology: Hip and Elbow Certification</b>	Radiographic films	<b>ELHIC</b>	Envelope	Please allow 3 - 5 weeks for results	Dog must be 18 months or older  Include completed Radiology Requisition form which lists required views and additional information  Include DOB, copy of CKC Registration, tattoo and/or microchip #, owner's name & address, date x-rays were taken
<b>Radiology: Hip Certification</b>	Radiographic films	<b>HIPC</b>	Envelope	Please allow 3 - 5 weeks for results	Dog must be 18 months or older  Include completed Radiology Requisition form which lists required views and additional information  Include DOB, copy of CKC Registration, tattoo and/or microchip #, owner's name & address, date x-rays were taken
<b>Renin</b>	1 mL frozen EDTA plasma (Lavender top)	<b>REN</b>	Separate and freeze plasma, ship frozen on ice (mandatory)	Referred out, please allow 2 weeks for results	
<b>Reserpine</b>	20-30 mL urine in tightly sealed sterile plastic jar, or 5-10 mL heparinized plasma (Green top), or 5-10 mL serum (Red top, do not use SST)	<b>RES</b>	Refrigerate, ship on ice	Referred out, please allow 1 week for results	

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<b>Reticulocyte Count</b>	1 mL EDTA whole blood (Lavender top)	<b>RET</b>	Refrigerate, ship on ice	Run on receipt, result same day	
<b>Rheumatoid Factor</b>	1 mL serum (SST or Red top)	<b>RHF</b>	Refrigerate, ship on ice	Run on receipt, result same day	
<b>Rhodococcus equi DNA</b>	Nasal and/or tracheal swab in sterile container without transport media, or tissue (lung, lymph node) in sterile container without formalin	<b>RHOD</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results	
<b>Rocky Mountain Spotted Fever Antibody Titer IFA</b>	1 mL serum (SST or Red top)	<b>RMSF</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Salmonella spp. DNA</b>	Feces in tightly sealed sterile plastic jar	<b>SALD</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results	
<b>Scrapie Resistance Codon 136</b>	10 mL EDTA whole blood (Lavender top)	<b>SR136</b>	Refrigerate, ship on ice	Please allow 3-5 days (Mon-Fri) for results	
<b>Scrapie Resistance Codon 171</b>	10 mL EDTA whole blood (Lavender top)	<b>SR171</b>	Refrigerate, ship on ice	Please allow 3-5 days (Mon-Fri) for results	
<b>Selenium</b>	2 mL EDTA whole blood (Lavender top) or 2 mL serum (SST or Red top)	<b>SEL</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Semen Analysis Manual sperm count &amp; motility</b>	Semen in sterile container	<b>SA</b>	Room temperature (37C if possible)	Run on receipt, result same day	For motility, submit within 1 hour of collection
<b>Serum Protein Electrophoresis</b>	1 mL serum (SST or Red top)	<b>PEP</b>	Refrigerate, ship on ice	Batched and run on Wednesday, results the following Friday. Sample must be in the lab by 10am to be included in that day's run	Includes interpretation Can be performed on body fluid Electrophoresis on urine available as a referred out test
<b>Severe Combined Immunodeficiency Disease DNA</b>	1 mL EDTA whole blood (Lavender top), or buccal swab using a sterile cytology brush	<b>SCIDD</b>	Refrigerate, ship on ice	Referred out, please allow 4 weeks for results	Available for the following breeds: Arabian Horses
<b>Shigella spp. DNA UNAVAILABLE UNTIL FURTHER NOTICE</b>	Feces in tightly sealed sterile plastic jar	<b>SHID</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results	Tissue can be submitted in sterile container frozen without formalin Freeze tissue immediately, ship on ice, dry ice if possible, must arrive at lab frozen

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<b>Sodium part of ISE Panel</b>	0.5 mL serum (SST or Red top)	<b>SOD</b>	Refrigerate, ship on ice	Run on receipt, result same day	For Sodium, ISE Panel must be ordered  ISE Panel includes Sodium, Potassium, Sodium/Potassium Ratio, and Chloride
<b>Sodium/Potassium Ratio part of ISE Panel</b>	0.5 mL serum (SST or Red top)	<b>NKR</b>	Refrigerate, ship on ice	Run on receipt, result same day	For Sodium/Potassium Ratio, ISE Panel must be ordered  ISE Panel includes Sodium, Potassium, Sodium/Potassium Ratio, and Chloride
<b>Spec cPL Canine PLI (Pancreatic Lipase Immunoreactivity)</b>	0.5 mL serum (SST or Red top)	<b>CPLI</b>	Refrigerate, ship on ice	Batched and run daily (Mon-Fri), results same day. Sample must be in the lab by 10am to be included in that day's run	Fasting specimen recommended  Test of choice for pancreatic inflammatory disease
<b>Spider Lamb Syndrome DNA</b>	10 mL EDTA whole blood (Lavender top)	<b>SLSD</b>	Refrigerate, ship on ice	Please allow 3-5 days (Mon-Fri) for results	
<b>Sterilizer Quality Assurance (Single Test)</b>	Biological indicator containing Bacillus stearothermophilus	<b>SQA</b>	Room temperature	Please allow 2 days for results	Used to test the efficiency of either wet or dry sterilizers
<b>Sterilizer Quality Assurance Certification (1 Year)</b>	Biological indicators containing Bacillus stearothermophilus (Supplied by Vita-Tech, 12 per year per sterilizer)	<b>SQAA</b>	Room temperature	Please allow 2 days for results	Certification of instrument sterilizers, available for both wet and dry heat sterilizers: SQAA one year SQAA2 two year SQAA3 three year
<b>Sterilizer Quality Assurance Certification (2 Years)</b>	Biological indicators containing Bacillus stearothermophilus (Supplied by Vita-Tech, 12 per year per sterilizer)	<b>SQAA2</b>	Room temperature	Please allow 2 days for results	Certification of instrument sterilizers, available for both wet and dry heat sterilizers: SQAA one year SQAA2 two year SQAA3 three year
<b>Sterilizer Quality Assurance Certification (3 Years)</b>	Biological indicators containing Bacillus stearothermophilus (Supplied by Vita-Tech, 12 per year per sterilizer)	<b>SQAA3</b>	Room temperature	Please allow 2 days for results	Certification of instrument sterilizers, available for both wet and dry heat sterilizers: SQAA one year SQAA2 two year SQAA3 three year
<b>Streptococcus equi Antibody ELISA</b>	1 mL serum (SST or Red top)	<b>SEE</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	Does not distinguish between vaccination and infection
<b>Streptococcus equi DNA</b>	Nasal swab in sterile container without transport media	<b>SED</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results	
<b>T3</b>	1 mL serum (Monoject CORVAC SST or Red top)	<b>T3</b>	Refrigerate, ship on ice	Run on receipt, result same day	

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Test	Specimen	Code	Storage	Schedule	Comments
<b>T4</b>	1 mL serum (SST or Red top)	<b>T4</b>	Refrigerate, ship on ice	Run on receipt, result same day	For monitoring thyroxine medication, collect 4-6 hours post dose  For monitoring tapezole therapy, as long as the animal has been under treatment with tapezole for at least 5 days, sampling can occur at anytime
<b>Taurine</b>	1 mL serum or heparinized plasma (Red top or Green top)	<b>TAU</b>	Separate serum or plasma, refrigerate, ship on ice  It is important to avoid contamination with cells	Please allow 1 week for results	Sensitive to hemolysis due to release of taurine from cells
<b>Testosterone</b>	1 mL serum (Red top)	<b>TES</b>	Refrigerate, ship on ice	Batched and run on Thu, results same day. Sample must be in the lab by 10am in order to be included in that day's run	For interpretation, species, sex, and age must all be provided
<b>Theophylline</b>	1 mL serum (SST or Red top) Serum from a plain Red top tube is recommended for therapeutic drug monitoring	<b>THE</b>	Refrigerate, ship on ice	Please allow 1 week for results	For peak value, collect sample 5 hr post dose For trough value, collect sample immediately before next dose  Serum, especially small volumes of serum, that have been stored in SSTs for >2 days, should not be submitted for Theophylline
<b>Thrombin Time</b>	1 mL sodium citrate plasma (Blue top) Full draw is mandatory (2/3 to 3/4 full) See Notes	<b>TT</b>	Refrigerate, ship on ice	Run on receipt, result same day	Fasting sample recommended  If testing will be delayed >4 hr, centrifuge, separate citrated plasma into a plain tube, freeze, ship on ice  Incorrect blood to anticoagulant ratio will falsely prolong clotting times (blood to anticoagulant ratio must be 9:1)
<b>Total Iron Binding Capacity</b>	1 mL serum (SST or Red top)	<b>TIBC</b>	Refrigerate, ship on ice	Referred out, please allow 1 week for results	Iron and UIBC included (TIBC = UIBC + Iron)  Sensitive to hemolysis due to release of hemoglobin from erythrocytes (serum should separated from the clot, a centrifuged SST is ideal)
<b>Toxoplasma Antibody IgG and IgM</b>	1 mL serum (SST or Red top)	<b>TOGM</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	Separate titers for IgG and IgM
<b>Toxoplasma gondii Antibody IFA</b>	1 mL serum (SST or Red top)	<b>TAB</b>	Refrigerate, ship on ice	Batched and run on Tue and Thu, results same day. Sample must be in the lab by 10am in order to be included in that day's run	Detects IgG antibodies only

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Test	Specimen	Code	Storage	Schedule	Comments
<b>Toxoplasma Oocysts</b>	3-5 g fresh feces in SAF in tightly sealed plastic jar	<b>TOXO</b>	Room temperature	Please allow 2-3 days (Mon-Fri) for results	Feline only
<b>Triglycerides</b>	0.5 mL serum (SST or Red top)	<b>TRI</b>	Refrigerate, ship on ice	Run on receipt, result same day	Post prandial values may be elevated, fasting sample strongly recommended
<b>Tritrichomonas foetus Culture</b>	Fresh feces submitted in Tritrichomonas culture medium using the Tritrichomonas culture kit. Collection instructions are provided with the kit	<b>TFC</b>	Room temperature	Please allow 1-2 weeks for results	Ensure the fecal sample is fresh and diarrheic, and free of cat litter. Sample must be received by the lab within 24 hours of collection  If Tritrichomonas culture kit is not available, fresh feces in a sterile jar may be submitted
<b>Tritrichomonas foetus DNA</b>	Fresh feces in tightly sealed plastic jar or fecal collection using Tritrichomonas foetus Culture kit (TFC Kit)	<b>TFD</b>	Room temperature	Please allow 2-3 days (Mon-Fri) for results	
<b>Troponin I</b>	0.5 mL serum (SST or Red top)	<b>TRO</b>	Refrigerate, ship on ice	Referred out, please allow 1 week for results	
<b>Unbound Iron Binding Capacity</b>	1 mL serum (SST or Red top)	<b>UIBC</b>	Refrigerate, ship on ice	Referred out, please allow 1 week for results	Run whenever TIBC is ordered (TIBC = UIBC + Iron)  Sensitive to hemolysis due to release of hemoglobin from erythrocytes (serum should separated from the clot, a centrifuged SST is ideal)
<b>Urea</b>	0.5 mL serum (SST or Red top)	<b>URE</b>	Refrigerate, ship on ice	Run on receipt, result same day	
<b>Ureaplasma spp. DNA</b>	1 mL EDTA whole blood (Lavender top), and/or vaginal or preputial swab in sterile container without transport media	<b>URPD</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	
<b>Uric Acid</b>	0.5 mL serum (SST or Red top)	<b>UA</b>	Refrigerate, ship on ice	Run on receipt, result same day	
<b>Urinalysis (Dipstick &amp; Microscopy)</b>	1-10 mL urine in tightly sealed sterile plastic jar without preservative (10 mL is ideal but won't be practical in many cases)	<b>UNA</b>	Refrigerate, ship on ice	Run on receipt, result same day	If neoplasia is suspected, please include an unstained air-dried smear from sediment

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Test	Specimen	Code	Storage	Schedule	Comments
<b>Urine Bile Acids/Creatinine Ratio</b>	1 mL urine in tightly sealed sterile plastic jar or plain Red top tube	<b>UCCR</b>	Refrigerate, ship on ice	Run Monday, Wednesday, and Friday, results same day	<p>No fasting required</p> <p>In cats, a single Urine Bile Acid/Creatinine Ratio determination can be used in place of serum bile acid determination</p> <p>In dogs, a normal Urine Bile Acid/Creatinine Ratio should be confirmed by pre and post prandial serum bile acid determination</p> <p>Urinalysis should also be performed to check for hematuria (3+ or 4+ hematuria can cause false high values)</p>
<b>Urine Cortisol/Creatinine Ratio</b>	1 mL urine in tightly sealed sterile plastic jar or plain Red top tube	<b>UCCR</b>	Refrigerate, ship on ice	Run on receipt, result same day	<p>Urinalysis should also be performed to check for hematuria (3+ or 4+ hematuria can cause false high values)</p> <p>A ratio &gt;60 is supportive of a diagnosis of hyperadrenocorticism (Cushings). The diagnosis must still be confirmed using low dose dex suppression or ACTH stimulation. Ratios &lt;60 are non-specific and may occur secondary to stress and many other disease conditions</p>
<b>Urine Dipstick</b>	1 mL urine in tightly sealed sterile plastic jar without preservative	<b>DIP</b>	Refrigerate, ship on ice	Run on receipt, result same day	Does not include microscopics
<b>Urine Myoglobin</b>	5 mL urine in tightly sealed sterile plastic jar	<b>UMY</b>	Refrigerate, ship on ice	Same day	Qualitative Analysis
<b>Urine Protein/Creatinine Ratio</b>	1 mL urine in tightly sealed sterile plastic jar or plain Red top tube	<b>UPCR</b>	Refrigerate, ship on ice	Run on receipt, result same day	<p>Urinalysis should also be performed to check for pyuria and hematuria (pyuria and 3+ or 4+ hematuria can cause false high values)</p> <p>Microalbumin is the test of choice for urines with negative protein on dipstick</p> <p>Urine Protein/Creatinine Ratio is the test of choice for urines with positive protein on dipstick</p>
<b>Urine Uric Acid/Creatinine Ratio</b>	5-10 mL urine in tightly sealed sterile plastic jar or plain Red top tube	<b>UUCR</b>	Refrigerate, ship on ice	Run on receipt, result same day	
<b>Vitamin B12</b>	1 mL serum (SST or Red top)	<b>B12</b>	Refrigerate, ship on ice	Batched and run on Mon, Wed and Fri, results same day. Sample must be in the lab by 10am in order to be included in that day's run	<p>Post prandial values will be elevated, fasting sample strongly recommended</p> <p>Sensitive to hemolysis due to release of Folate from erythrocytes (serum should be separated from the clot, a centrifuged SST is ideal)</p>

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Test	Specimen	Code	Storage	Schedule	Comments
<b>Vitamin D</b>	1 mL serum (SST or Red top)	<b>VITD</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	Avoid exposure to light
<b>Vitamin E</b>	1 mL serum (SST or Red top)	<b>VITE</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	Avoid exposure to light
<b>Von Willebrand Factor ELISA</b>	1 mL sodium citrate plasma (Blue top) Full draw is mandatory (2/3 to 3/4 full) See Notes	<b>VWF</b>	Refrigerate, ship on ice	Run on receipt, result same day	Fasting specimen recommended  If testing will be delayed >4 hr, centrifuge, separate citrated plasma into a plain tube, freeze, ship on ice  Do not test breeding bitch within 1 month of estrus, while pregnant, following whelping, or sooner than 1 month of weaning  Used to predict bleeding tendency in breeds at risk. It is an indirect measure of genetic make-up. For specific genotype determination see Canine von Willebrand's Disease DNA
<b>West Nile Virus DNA</b>	Brain tissue or CSF collected fresh and frozen immediately Avian specimen: see Notes	<b>WNVD</b>	Freeze tissue immediately, refrigerate other samples, ship on ice	Please allow 2-3 days (Mon-Fri) for results. Mammals must first be confirmed rabies-free by CFIA	Used primarily to confirm WNV infection in dead animals  Mammals must first be confirmed rabies-free by CFIA  Avian specimen: 50-100 uL whole blood (Green or Lavender top) or few drops blood on avian specimen card, plus oral or cloacal swab in sterile container without transport media  Brain or organ tissue can be submitted in sterile container frozen without formalin Freeze tissue immediately, ship on ice, dry ice if possible, must arrive at lab frozen  Do not submit whole birds
<b>Western Equine Encephalitis</b>	1 mL serum (SST or Red top)	<b>WEE</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	Please specify whether for diagnosis of active disease or for vaccine titer
<b>Worm Identification</b>	Whole specimen in clean container (Preserve in 10% formalin if possible)	<b>WID</b>	If unpreserved, refrigerate, ship on ice	Please allow 1-2 days (Mon-Fri) for results	

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Test	Specimen	Code	Storage	Schedule	Comments
Zinc	1 mL serum (SST or Red top) Avian: 0.5 mL heparinized whole blood (Green top Lithium Heparin microtainer)	ZIN	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	

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Test	Specimen	Code	Storage	Schedule	Contents	Comments
<b>Avian Bacterial and Viral Profile DNA</b>	50-100 uL whole blood (Green or Lavender top) or few drops blood on avian specimen card, plus cloacal swab in sterile container without transport media	<b>ABVD</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results	Avian Beak and Feather Disease DNA Avian Polyomavirus DNA Chlamyophila psittaci DNA	Tissue can be submitted in sterile container frozen without formalin Freeze tissue immediately, ship on ice, dry ice if possible, must arrive at lab frozen  Do not submit whole birds
<b>Avian Bacterial Profile DNA UNAVAILABLE UNTIL FURTHER NOTICE</b>	50-100 uL whole blood (Green or Lavender top) or few drops blood on avian specimen card, plus cloacal swab in sterile container without transport media	<b>SABD</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results	Chlamyophila psittaci DNA E. coli O157:H7 DNA UNAVAILABLE UNTIL FURTHER NOTICE Salmonella spp. DNA	Tissue can be submitted in sterile container frozen without formalin Freeze tissue immediately, ship on ice, dry ice if possible, must arrive at lab frozen  Do not submit whole birds
<b>Avian Profile I</b>	0.6 mL heparinized whole blood (1 Green top Lithium Heparin microtainer)	<b>AP1</b>	Refrigerate, ship on ice	Run on receipt, result same day	Avian/Reptile WBC and Differential Bile Acids Uric Acid	If specimen volume may be inadequate, please specify priority of testing
<b>Avian Profile II</b>	1.2 (0.6 x 2) mL heparinized whole blood (2 Green top Lithium Heparin microtainers)	<b>AP2</b>	Refrigerate, ship on ice	Run on receipt, result same day	Aspartate Aminotransferase Avian/Reptile CBC Bile Acids Calcium Creatine Kinase Glucose Protein (Total) Uric Acid	If specimen volume may be inadequate, please specify priority of testing

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Test	Specimen	Code	Storage	Schedule	Contents	Comments
<b>Avian Profile III</b>	1.2 (0.6 x 2) mL heparinized whole blood (2 Green top Lithium Heparin microtainers)	<b>AP3</b>	Refrigerate, ship on ice	Run on receipt. Results same day	Albumin Albumin/Globulin Ratio Amylase Aspartate Aminotransferase Avian/Reptile CBC Bile Acids Calcium Cholesterol Creatine Kinase Globulin Glucose ISE Panel Sodium, Potassium, Chloride, Na/K Ratio Phosphorus Protein (Total) Uric Acid	If specimen volume may be inadequate, please specify priority of testing
<b>Avian Viral Profile DNA</b>	50-100 uL whole blood (Green or Lavender top) or few drops blood on avian specimen card, plus cloacal swab in sterile container without transport media	<b>SAVD</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results	Avian Beak and Feather Disease DNA Avian Pacheco's Disease DNA Avian Polyomavirus DNA	Tissue can be submitted in sterile container frozen without formalin Freeze tissue immediately, ship on ice, dry ice if possible, must arrive at lab frozen  Do not submit whole birds
<b>Avian/Reptile CBC</b>	0.6 mL heparinized or EDTA whole blood (Green top Lithium Heparin microtainer or Lavender top microtainer)	<b>ARCBC</b>	Refrigerate, ship on ice	Run on receipt, result same day	Differential RBC Count & Indices WBC Count	
<b>Avian/Reptile WBC and Differential</b>	0.6 mL heparinized or EDTA whole blood (Green top Lithium Heparin microtainer or Lavender top microtainer)	<b>ARDIF</b>	Refrigerate, ship on ice	Run on receipt, result same day	Differential WBC Count	

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Test	Specimen	Code	Storage	Schedule	Contents	Comments
<b>Basic Wellness</b>	1 mL serum (SST or Red top) plus Grey top for glucose if SST not centrifuged	<b>P0HS</b>	Refrigerate, ship on ice	Run on receipt, result same day	Alanine Aminotransferase Albumin Albumin/Globulin Ratio Creatinine Globulin Glucose Protein (Total) Urea	
<b>Bile Acids (Pre &amp; Post)</b>	1 mL serum (SST or Red top)	<b>BAPP</b>	Refrigerate, ship on ice	Run on receipt, result same day	Bile Acids	<p>Protocol for pre and post specimens: 12 hours fasting specimen, 2 hours post prandial specimen</p> <p>Fast the patient for 10-12 hours (water is permitted). Collect a serum sample for fasting bile acids determination. Feed the patient with a good quality canned food. Large dog should receive 3-5 tablespoons, medium sized dog 2-3 tablespoons, small dog 1 tablespoon, cat 1-2 teaspoons. It important that the meal be consumed quickly. Force feeding may be necessary. Collect a serum sample for post-prandial bile acids determination exactly 2 hours after the meal has been eaten. The timing of sample collection is critical to test interpretation.</p> <p>Can be run in combination with Dexamethasone Suppression or ACTH Stimulation (feed and inject after collecting the pre sample)</p>

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Test	Specimen	Code	Storage	Schedule	Contents	Comments
<b>Bovine Chemistry Profile</b>	2 mL serum (SST or Red top)	<b>BP</b>	Refrigerate, ship on ice	Run on receipt, result same day	Albumin Albumin/Globulin Ratio Alkaline Phosphatase Aspartate Aminotransferase Calcium Cholesterol Creatine Kinase Creatinine Globulin Glucose ISE Panel Sodium, Potassium, Chloride, Na/K Ratio Lactate Dehydrogenase Magnesium Phosphorus Urea	
<b>Bovine Comprehensive Profile</b>	2 mL EDTA whole blood (Lavender top) plus 2 mL serum (SST or Red top) plus Grey top for glucose if SST not centrifuged	<b>BCP</b>	Refrigerate, ship on ice	Run on receipt, result same day	Albumin Albumin/Globulin Ratio Alkaline Phosphatase Aspartate Aminotransferase Calcium CBC Full with differential and platelets Cholesterol Creatine Kinase Creatinine Globulin Glucose ISE Panel Sodium, Potassium, Chloride, Na/K Ratio Lactate Dehydrogenase Magnesium Phosphorus Protein (Total) Urea	CBC + Bovine Chemistry Profile

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Test	Specimen	Code	Storage	Schedule	Contents	Comments
<b>Bovine Parentage &amp; Myostatin DNA Piedmontese only</b>	1 mL EDTA whole blood (Lavender top)	<b>PMPD</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	Bovine Myostatin DNA Piedmontese only Bovine Parentage	Samples should be submitted from dam, offspring, and possible sire for parentage (charge applies per sample)  DNA profile can be performed on single animal
<b>Broodmare Endometrial Exam</b>	Swab in aerobic transport media, plus unstained air-dried smear	<b>CYTO/BM C</b>	Room temperature	Culture: Please allow 2 days for negative results, longer depending on growth Cytology: Results in 24 hours (Mon-Fri)	Aerobic Culture, ID & Sensitivities Cytology: FNA/Fluid/CSF	
<b>Canine Blood Donor Screen</b>	1 mL EDTA whole blood (Lavender top) plus 1 mL serum (SST or Red top)	<b>CBDS</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results Babesia IFA: Referred out, please allow 2 weeks for results	Babesia canis Antibody IFA Hemobartonella felis (Hemoplasma) DNA IDEXX SNAP 4Dx Lyme, Ehrlichia, Anaplasma, Heartworm	
<b>Canine Diabetic Wellness Profile</b>	1 mL serum (SST or Red top) plus Grey top for glucose if SST not centrifuged plus 2-10 mL urine in tightly sealed sterile plastic jar (10 mL is ideal but won't be practical in many cases)	<b>CDW</b>	Refrigerate, ship on ice	Same day	Canine Urine Microalbumin Fructosamine Glucose Urinalysis (Dipstick & Microscopy)	
<b>Canine Distemper &amp; Parvovirus Vaccine Titers IFA</b>	1 mL serum (SST or Red top)	<b>CDPT</b>	Refrigerate, ship on ice	Batched and run on Tue and Thu, results same day. Sample must be in the lab by 10am in order to be included in that day's run	Canine Distemper Vaccine Titer IFA Canine Parvovirus Vaccine Titer IFA	

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Test	Specimen	Code	Storage	Schedule	Contents	Comments
<b>Canine Geriatric Profile</b>	2 mL EDTA whole blood (Lavender top) plus 2 mL serum (Monoject CORVAC SST or Red top) plus Grey top for glucose if SST not centrifuged	<b>CGP</b>	Refrigerate, ship on ice	Run on receipt, result same day	Alanine Aminotransferase Albumin Albumin/Globulin Ratio Alkaline Phosphatase Calcium CBC Full with differential and platelets Creatinine Free T4 Chemiluminescent method Globulin Glucose ISE Panel Sodium, Potassium, Chloride, Na/K Ratio Phosphorus Protein (Total) Urea	
<b>Canine Infertility/Abortion Profile</b>	1 mL EDTA whole blood (Lavender top) plus 1 mL serum (SST or Red top)	<b>CIAP</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results	Canine Brucella DNA Canine/Feline Herpesvirus DNA Mycoplasma spp. DNA Toxoplasma gondii Antibody IFA	
<b>Canine Thyroid Mini Profile</b>	2 mL serum (Monoject CORVAC SST or Red top)	<b>CMT</b>	Refrigerate, ship on ice	Run on receipt, result same day	Canine T4 Canine TSH Free T4 Chemiluminescent method	

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Test	Specimen	Code	Storage	Schedule	Contents	Comments
<b>Canine Thyroid OFA Registry Profile</b>	2 mL serum (Monoject CORVAC SST or Red top)	<b>OFA</b>	Refrigerate, ship on ice If stored >12 hours, freeze serum and ship on ice (mandatory)	Please allow 2-3 days (Mon-Fri) for results	Canine Thyroglobulin Autoantibodies Canine TSH Free T4 Two-step Radioimmunoassay	<p>Include completed OFA Application for Thyroid Database form (form includes information on OFA registration fees)</p> <p>Minimum age required for registration is 12 months</p> <p>OFA Registration fees: US\$15.00 payable to the OFA (see bottom of application for litter and kennel rates) Attach to the application a cheque or money order drawn on a US financial institution, a postal money order, or provide a Visa or Mastercard number along with expiration date and name as it appears on the card</p> <p>Vita-Tech's Thyroid Registry Requisition form includes complete specimen handling requirements</p> <p>Orthopedic Foundation for Animals: 573-442-0418 <a href="http://www.offa.org">www.offa.org</a></p>
<b>Canine Thyroid Pre-Breeding Screen</b>	2 mL serum (Monoject CORVAC SST or Red top)	<b>CPB</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results	Canine Thyroglobulin Autoantibodies Canine TSH Free T4 Two-step Radioimmunoassay	
<b>Canine Thyroid Profile 1</b>	2 mL serum (Monoject CORVAC SST or Red top)	<b>CTP1</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results	Canine T4 Canine Thyroglobulin Autoantibodies Canine TSH Free T4 Chemiluminescent method T3	Includes interpretation
<b>Canine Thyroid Profile 2</b>	2 mL serum (Monoject CORVAC SST or Red top)	<b>CTP2</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results	Canine T4 Canine Thyroglobulin Autoantibodies Canine TSH Free T4 Two-step Radioimmunoassay T3	Includes interpretation

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Test	Specimen	Code	Storage	Schedule	Contents	Comments
<b>Canine Tick-Borne Pathogen Screen</b>	1 mL EDTA whole blood (Lavender top) plus 1 mL serum (SST or Red top)	<b>CTBP</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results	Babesia spp. DNA Bartonella henselae DNA IDEXX SNAP 4Dx Lyme, Ehrlichia, Anaplasma, Heartworm	Wait 4 weeks after tick exposure before testing
<b>Canine TLI, B12 &amp; Folate</b>	1 mL serum (SST or Red top)	<b>TBF</b>	Refrigerate, ship on ice	Batched and run on Mon, Wed and Fri, results same day. Sample must be in the lab by 10am in order to be included in that day's run	Canine TLI Trypsin-Like Immunoreactivity Vitamin B12 & Folate	12 hr fasting specimen mandatory (water is permitted)  Sensitive to hemolysis due to release of Folate from erythrocytes (serum should be separated from the clot, a centrifuged SST is ideal)
<b>Canine Viral &amp; Parasitic Gastroenteritis Profile</b>	1 mL EDTA whole blood (Lavender top) and 3-5 g fresh feces in SAF in tightly sealed plastic jar and/or 3-5 g fresh feces in tightly sealed plastic jar	<b>CVPG</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results	Canine Coronavirus DNA Canine Parvovirus DNA Cryptosporidium Antigen ELISA Giardia Antigen ELISA Ova and Parasites (sedimentation concentration)	
<b>CBC Full with differential and platelets</b>	1 mL EDTA whole blood (Lavender top)	<b>CBC</b>	Refrigerate, ship on ice	Run on receipt, result same day	Differential Platelet Count RBC Count & Indices WBC Count	
<b>CBC Partial w/o differential, w/o platelets</b>	1 mL EDTA whole blood (Lavender top)	<b>CCIND</b>	Refrigerate, ship on ice	Run on receipt, result same day	RBC Count & Indices WBC Count	
<b>CBC Plus with differential, platelets, and reticulocytes</b>	1 mL EDTA whole blood (Lavender top)	<b>HCBC</b>	Refrigerate, ship on ice	Run on receipt, result same day	Differential Platelet Count RBC Count & Indices Reticulocyte Count WBC Count	
<b>Clinical Chemistry 1</b>	1-2 mL serum (SST or Red top) plus Grey top for glucose if SST not centrifuged	<b>CC1</b>	Refrigerate, ship on ice	Run on receipt, result same day	Alanine Aminotransferase Albumin Albumin/Globulin Ratio Alkaline Phosphatase Bilirubin (Total) Creatinine Globulin Glucose Protein (Total) Urea	

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Test	Specimen	Code	Storage	Schedule	Contents	Comments
<b>Clinical Chemistry 2</b>	1-2 mL serum (SST or Red top) plus Grey top for glucose if SST not centrifuged	<b>CC2</b>	Refrigerate, ship on ice	Run on receipt, result same day	Alanine Aminotransferase Albumin Albumin/Globulin Ratio Alkaline Phosphatase Amylase Bilirubin (Total) Creatinine Globulin Glucose ISE Panel Sodium, Potassium, Chloride, Na/K Ratio Protein (Total) Urea	Clinical Chemistry I plus Amylase, Chloride, Potassium, Sodium, Sodium/Potassium Ratio
<b>Clinical Chemistry 3</b>	1-2 mL serum (SST or Red top) plus Grey top for glucose if SST not centrifuged	<b>CC3</b>	Refrigerate, ship on ice	Run on receipt, result same day	Alanine Aminotransferase Albumin Albumin/Globulin Ratio Alkaline Phosphatase Amylase Aspartate Aminotransferase Bilirubin (Conjugated) Bilirubin (Total) Calcium Cholesterol Creatine Kinase Creatinine Globulin Glucose ISE Panel Sodium, Potassium, Chloride, Na/K Ratio Lipase Phosphorus Protein (Total) Urea	Clinical Chemistry II plus AST, Conjugated Bilirubin, Calcium, Cholesterol, CK, Lipase, Phosphorus

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Test	Specimen	Code	Storage	Schedule	Contents	Comments
<b>Clinical Chemistry 4 (Superchem)</b>	1-2 mL serum (SST or Red top) plus Grey top for glucose if SST not centrifuged	<b>CC4</b>	Refrigerate, ship on ice	Run on receipt, result same day	Alanine Aminotransferase Albumin Albumin/Globulin Ratio Alkaline Phosphatase Amylase Aspartate Aminotransferase Bicarbonate Bilirubin (Conjugated) Bilirubin (Total) Calcium Cholesterol Creatine Kinase Creatinine Gamma Glutamyl Transferase Globulin Glucose ISE Panel Sodium, Potassium, Chloride, Na/K Ratio Lipase Magnesium Phosphorus Protein (Total) Triglycerides Urea	Clinical Chemistry III plus Bicarbonate, GGT, Magnesium, Triglycerides
<b>Clotting Factor Assay Panel 1 Factors VII - XI</b>	1 mL sodium citrate plasma (Blue top) Full draw is mandatory (2/3 to 3/4 full)	<b>CFA1</b>	Separate and freeze plasma, ship frozen on ice (mandatory)	Referred out, please allow 2 weeks for results	Clotting Factor IX Clotting Factor VII Clotting Factor VIII Clotting Factor X Clotting Factor XI	Fasting specimen recommended  If testing will be delayed >4 hr, centrifuge, separate citrated plasma into a plain tube, freeze, ship on ice  Large animal submissions must be accompanied by a control specimen (a Blue top drawn from a healthy animal and handled the same as the patient specimen)  Incorrect blood to anticoagulant ratio will falsely prolong clotting times (blood to anticoagulant ratio must be 9:1)

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<b>Clotting Factor Assay Panel 2</b> <b>Factors II, V, VII - XI</b>	1 mL sodium citrate plasma (Blue top) Full draw is mandatory (2/3 to 3/4 full)	<b>CFA2</b>	Separate and freeze plasma, ship frozen on ice (mandatory)	Referred out, please allow 2 weeks for results	Clotting Factor II Clotting Factor IX Clotting Factor V Clotting Factor VII Clotting Factor VIII Clotting Factor X Clotting Factor XI	Fasting specimen recommended  If testing will be delayed >4 hr, centrifuge, separate citrated plasma into a plain tube, freeze, ship on ice  Large animal submissions must be accompanied by a control specimen (a Blue top drawn from a healthy animal and handled the same as the patient specimen)  Incorrect blood to anticoagulant ratio will falsely prolong clotting times (blood to anticoagulant ratio must be 9:1)
<b>Coagulation Profile</b>	1 mL sodium citrate plasma (Blue top), plus 1 mL EDTA whole blood (Lavender top) for platelet count if desired Full draw is mandatory on Blue top (2/3 to 3/4 full) See Notes	<b>COAG</b>	Refrigerate, ship on ice	Run on receipt, result same day	APTT Fibrinogen Platelet Count Prothrombin Time Thrombin Time	Fasting sample recommended  If testing will be delayed >4 hr, centrifuge, separate citrated plasma into a plain tube, freeze, ship on ice  Large animal submissions must be accompanied by a control specimen (a Blue top drawn from a healthy animal and handled the same as the patient specimen)  Incorrect blood to anticoagulant ratio will falsely prolong clotting times (blood to anticoagulant ratio must be 9:1)
<b>Complete Drug Screen</b>	20-30 mL urine in tightly sealed sterile plastic jar, or 5-10 mL heparinized plasma (Green top), or 5-10 mL serum (Red top, do not use SST)	<b>CDS</b>	Refrigerate, ship on ice	Referred out, please allow 1 week for results	Drugs: Acid-Extractable Drugs: Base-Extractable	

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Test	Specimen	Code	Storage	Schedule	Contents	Comments
<b>Complete Renal Profile</b>	2 mL EDTA whole blood (Lavender top), plus 1 mL serum (SST or Red top), plus 1-10 mL urine in tightly sealed sterile plastic jar without preservative (10 mL is ideal but won't be practical in many cases)	<b>CRP</b>	Refrigerate, ship on ice	Run on receipt, result same day	Albumin Albumin/Globulin Ratio Calcium CBC Full with differential and platelets Cholesterol Creatinine Globulin ISE Panel Sodium, Potassium, Chloride, Na/K Ratio Phosphorus Protein (Total) Urea Urinalysis (Dipstick & Microscopy)	

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Test	Specimen	Code	Storage	Schedule	Contents	Comments
<b>Cortisol series ACTH Stimulation</b>	(Addison's disease), for monitoring treatment for hyperadrenocorticism (HAC), and for confirmation of iatrogenic HAC  Can be run in combination with Bile Acids (Pre & Post) (feed and inject after collecting the pre sample)0.5 mL serum for each sample (Monoject CORVAC SST or Red top)	<b>AS</b>	Refrigerate, ship on ice	Run on receipt, result same day	Cortisol	<p>Canine protocols, Synthetic ACTH: Cortrosyn: 0.25 mg (250 ug) IM per dog (weight is not a consideration), draw pre, 1 hr post and 2 hr post specimens Cortrosyn: 5 ug per kg body weight IV, draw pre, 1 hr post and 2 hr post specimens Synacthen Depot: 0.5 mg IM per dog 15 kg or less body weight, 1.0 mg IM per dog &gt;15 kg body weight, draw pre, 1 hr post and 2 hr post specimens (Note: do not administer Synacthen Depot intravenously) Synacthen (not available in Canada): 0.25 mg IM or IV per dog (weight is not a consideration), draw pre, 1 hr post and 2 hr post specimens</p> <p>Canine protocol, Purified ACTH: 2.2 IU per kg body weight IM, draw pre and 2 hr post specimens</p> <p>Feline protocol for Addison's, Synthetic ACTH: Cortrosyn: 0.125 mg IM per cat (weight is not a consideration), draw pre, ½ hr post and 1 hr post specimen</p> <p>Feline protocol for Addison's, Purified ACTH: 2.2 IU per kg body weight IM, draw pre, 1 hr post and 2 hr post specimens</p> <p>ACTH Stimulation is the test of choice for diagnosis of hypoadrenocorticism (Addison's disease), for monitoring treatment for hyperadrenocorticism (HAC), and for confirmation of iatrogenic HAC</p> <p>Can be run in combination with Bile Acids (Pre &amp; Post) (feed and inject after collecting the pre sample)</p>

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Test	Specimen	Code	Storage	Schedule	Contents	Comments
<b>Cortisol Series High Dose Dexamethasone Suppression</b>	0.5 mL serum for each sample (Monoject CORVAC SST or Red top)	<b>HDS</b>	Refrigerate, ship on ice	Run on receipt, result same day	Cortisol	<p>Canine HDDS protocol: 1.0 mg/kg dex IV or IM Draw pre, 4 hr post and 8 hr post specimens</p> <p>Feline HDDS protocol: Either 1.0 mg/kg or 0.1 mg/kg dex IV or IM Draw pre, 4 hr post and 8 hr post specimens</p> <p>Charge will vary with number of samples</p> <p>For discrimination between pituitary-dependent hyperadrenocorticism (PDHAC) and adrenal tumour</p>
<b>Cortisol Series Low Dose Dexamethasone Suppression</b>	0.5 mL serum for each sample (Monoject CORVAC SST or Red top)	<b>LDS</b>	Refrigerate, ship on ice	Run on receipt, result same day		<p>Canine LDDS protocol: 0.01 mg/kg dex IV or IM Draw pre, 4 hr post and 8 hr post specimens</p> <p>Feline LDDS protocol: 0.1 mg/kg dex IV or IM Draw pre, 4 hr post and 8 hr post specimens</p> <p>Equine LDDS protocol: 40 ug/kg (2 mg/100 lb) dex IM at 4-6pm Draw pre and 20 hr post specimens (20 hr post at about noon the next day)</p> <p>Charge will vary with number of samples</p> <p>Test of choice for initial diagnosis of hyperadrenocorticism (pituitary-dependent and adrenal tumour)</p> <p>Can be run in combination with Bile Acids (Pre &amp; Post) (feed and inject after collecting the pre sample)</p>
<b>Electrolytes Panel</b>	1 mL serum (SST or Red top)	<b>ELEC</b>	Refrigerate, ship on ice	Run on receipt, result same day	Calcium ISE Panel Sodium, Potassium, Chloride, Na/K Ratio Phosphorus	

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Test	Specimen	Code	Storage	Schedule	Contents	Comments
<b>Enteric Pathogens ELISA Clostridium, Cryptosporidium, Giardia</b>	3-5 g fresh feces in tightly sealed plastic jar (SAF is not suitable for Clostridium perfringens Enterotoxin A)	<b>EP</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results		Fresh unfrozen feces must be received with 24 hours (may be preserved longer by freezing and shipping on ice)
<b>Equine Chemistry Panel (NEW)</b>	1 mL serum (SST or Red top), plus Grey top for glucose if SST not centrifuged	<b>EQC</b>	Refrigerate, ship on ice	Run on receipt, result same day	Albumin Albumin/Globulin Ratio Alkaline Phosphatase Anion Gap Aspartate Aminotransferase Bicarbonate Bilirubin (Conjugated) Bilirubin (Total) Calcium Cholesterol Creatine Kinase Creatinine Gamma Glutamyl Transferase Globulin Glucose ISE Panel Sodium, Potassium, Chloride, Na/K Ratio Magnesium Phosphorus Protein (Total) Urea	
<b>Equine Endocrine Wellness Profile</b>	1 mL serum (Red top), plus Grey top for glucose if serum not separated	<b>EEW</b>	Refrigerate, ship on ice	Insulin: Referred out, please allow 1 week for results Glucose and T4: Run on receipt	Glucose Insulin T4	Insulin: Recommend freezing serum and shipping on ice  If you have questions regarding fasting requirements for insulin testing, please contact one of our pathologists
<b>Equine Hepatic Panel</b>	1 mL serum (SST or Red top)	<b>EQH</b>	Refrigerate, ship on ice	Run on receipt, result same day	Albumin Alkaline Phosphatase Aspartate Aminotransferase Bile Acids Bilirubin (Conjugated) Bilirubin (Total) Cholesterol Gamma Glutamyl Transferase Triglycerides	

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Test	Specimen	Code	Storage	Schedule	Contents	Comments
<b>Equine Performance/Racehorse Profile</b>	2 mL serum (SST or Red top), plus Grey top for glucose if SST not centrifuged	<b>EPR</b>	Refrigerate, ship on ice	Run on receipt, result same day	Equine Chemistry Panel T4 Total Iron Binding Capacity	
<b>Equine Pre-purchase Wellness and Drug Screen</b>	2 mL EDTA whole blood (Lavender top), plus 5-10 mL serum (Red top), plus Grey top for glucose if SST not centrifuged	<b>EPWD</b>	Refrigerate, ship on ice	Please allow 1 week for results	CBC Full with differential and platelets Equine Chemistry Panel Pre-purchase Drug Screen	
<b>Equine Pre-Surgical Mini Panel</b>	1 mL serum (SST or Red top)	<b>EPS</b>	Refrigerate, ship on ice	Run on receipt, result same day	Anion Gap Aspartate Aminotransferase Bicarbonate Creatine Kinase Creatinine Gamma Glutamyl Transferase Glucose ISE Panel Sodium, Potassium, Chloride, Na/K Ratio Protein (Total) Urea	
<b>Equine Thyroid Profile</b>	1 mL serum (Monoject CORVAC SST or Red top)	<b>ETP</b>	Refrigerate, ship on ice	Run on receipt, result same day(T3 and T4) Please allow 1 week for results(FT4ED)	Free T4 Equilibrium Dialysis Radioimmunoassay T3 T4	Includes interpretation
<b>Equine Wellness 1</b>	2 mL EDTA whole blood (Lavender top), plus 1 mL serum (SST or Red top), plus Grey top for glucose if SST not centrifuged	<b>EW1</b>	Refrigerate, ship on ice	Run on receipt, result same day	Aspartate Aminotransferase CBC Partial w/o differential, w/o platelets Creatinine Gamma Glutamyl Transferase Glucose Protein (Total) Urea	

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Test	Specimen	Code	Storage	Schedule	Contents	Comments
<b>Equine Wellness 2</b>	2 mL EDTA whole blood (Lavender top), plus 1 mL serum (SST or Red top), plus Grey top for glucose if SST not centrifuged	<b>EW2</b>	Refrigerate, ship on ice	Run on receipt, result same day	Albumin Albumin/Globulin Ratio Alkaline Phosphatase Aspartate Aminotransferase Bilirubin (Total) Calcium CBC Full with differential and platelets Creatine Kinase Creatinine Gamma Glutamyl Transferase Globulin Glucose ISE Panel Sodium, Potassium, Chloride, Na/K Ratio Protein (Total) Urea	
<b>Equine Wellness Profile</b>	2 mL EDTA whole blood (Lavender top) plus 1 mL serum (SST or Red top) plus Grey top for glucose if SST not centrifuged	<b>EWP</b>	Refrigerate, ship on ice	Run on receipt. Results same day	Aspartate Aminotransferase CBC Partial w/o differential, w/o platelets Creatinine Gamma Glutamyl Transferase Glucose Protein (Total) T4 Urea	
<b>Equine West Nile Virus IgG &amp; IgM</b>	1 mL serum (SST or Red top), or 1 mL EDTA plasma (Lavender top)	<b>WNVS</b>	Refrigerate, ship on ice	Please allow 1-2 days (Mon-Fri) for results	Equine West Nile Virus IgG Antibody ELISA Equine West Nile Virus IgM Antibody ELISA	Relative proportion of IgG and IgM provides a good indication of recent exposure
<b>Feline Blood Donor Screen DNA</b>	1 mL EDTA whole blood (Lavender top)	<b>FBDS</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results	Bartonella henselae DNA FeLV DNA FIPV DNA FIV DNA Hemobartonella felis (Hemoplasma) DNA	

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Test	Specimen	Code	Storage	Schedule	Contents	Comments
<b>Feline Diabetic Wellness Profile</b>	1 mL serum (SST or Red top) plus Grey top for glucose if SST not centrifuged plus 2-10 mL urine in tightly sealed sterile plastic jar (10 mL is ideal but won't be practical in many cases)	<b>FDW</b>	Refrigerate, ship on ice	Same day	Feline Urine Microalbumin Fructosamine Glucose Urinalysis (Dipstick & Microscopy)	
<b>Feline Gastroenteritis Profile DNA</b>	1 mL EDTA whole blood (Lavender top) and 3-5 g fresh feces in tightly sealed plastic jar	<b>FGEP</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results	Campylobacter jejuni DNA UNAVAILABLE UNTIL FURTHER NOTICE E. coli O157:H7 DNA UNAVAILABLE UNTIL FURTHER NOTICE Feline Coronavirus DNA Feline Panleukopenia DNA Salmonella spp. DNA Shigella spp. DNA UNAVAILABLE UNTIL FURTHER NOTICE Yersinia enterocolitica DNA UNAVAILABLE UNTIL FURTHER NOTICE	

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Test	Specimen	Code	Storage	Schedule	Contents	Comments
<b>Feline Geriatric Profile</b>	2 mL EDTA whole blood (Lavender top) plus 1 mL serum (SST or Red top) plus Grey top for glucose if SST not centrifuged	<b>FGP</b>	Refrigerate, ship on ice	Run on receipt, result same day	Alanine Aminotransferase Albumin Albumin/Globulin Ratio Alkaline Phosphatase Calcium CBC Full with differential and platelets Creatinine Globulin Glucose ISE Panel Sodium, Potassium, Chloride, Na/K Ratio Phosphorus Protein (Total) T4 Urea	
<b>Feline Ocular Disease Screen</b>	1 mL serum (SST or Red top) plus 2 swabs from affected site in sterile container without transport media and/or 1 mL EDTA whole blood (Lavender top)	<b>FODS</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results Mycoplasma DNA: Referred out, please allow 2 weeks for results	Canine/Feline Herpesvirus DNA Chlamydomphila psittaci DNA Mycoplasma spp. DNA Toxoplasma gondii Antibody IFA	
<b>Feline PLI, B12 &amp; Folate</b>	1 mL serum (SST or Red top)	<b>PBFT</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	Feline PLI Pancreatic Lipase Immunoreactivity Vitamin B12 & Folate	Fasting specimen recommended  Sensitive to hemolysis due to release of Folate from erythrocytes (serum should be separated from the clot, a centrifuged SST is ideal)
<b>Feline Respiratory Disease Screen DNA</b>	Deep pharyngeal swab with visible organic material (please rub firmly) and a conjunctival swab, without transport media, in the same serum or empty, sterile tube; keep refrigerated.	<b>FRDS</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results Mycoplasma spp. DNA: Referred out, please allow 2 weeks for results	Canine/Feline Herpesvirus DNA Chlamydomphila psittaci DNA Feline Calicivirus DNA Mycoplasma spp. DNA	Samples should be collected prior to commencing antiviral therapy

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Test	Specimen	Code	Storage	Schedule	Contents	Comments
<b>Feline Thyroid Profile</b>	1 mL serum (Monoject CORVAC SST or Red top)	<b>FTP</b>	Refrigerate, ship on ice	Run on receipt, result same day(T3 and T4) Please allow 1 week for results(FT4ED)	Free T4 Equilibrium Dialysis Radioimmunoassay T3 T4	Includes interpretation
<b>Feline TLI, B12 &amp; Folate</b>	1 mL serum (SST or Red top)	<b>TBFT</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	Feline TLI Trypsin-Like Immunoreactivity Vitamin B12 & Folate	12 hr fasting specimen mandatory (water is permitted)  Sensitive to hemolysis due to release of Folate from erythrocytes (serum should be separated from the clot, a centrifuged SST is ideal)
<b>Feline TLI, PLI, B12, &amp; Folate</b>	1 mL serum (SST or Red top)	<b>TPBFT</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	Feline PLI Pancreatic Lipase Immunoreactivity Feline TLI Trypsin-Like Immunoreactivity Vitamin B12 & Folate	12 hr fasting specimen mandatory (water is permitted)  Sensitive to hemolysis due to release of Folate from erythrocytes (serum should be separated from the clot, a centrifuged SST is ideal)
<b>Feline Viral 2 DNA</b>	2 mL EDTA whole blood (Lavender top)	<b>FV2D</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results	FeLV DNA FIV DNA	
<b>Feline Viral 2 ELISA</b>	1 mL serum (SST or Red top) or 1 mL EDTA whole blood (Lavender top)	<b>FV2</b>	Refrigerate, ship on ice	Same day	FeLV Antigen ELISA FIV Antibody ELISA	FeLV Antigen ELISA: There is no minimum age for testing  FIV Antibody ELISA: Kittens should be at least 5 months of age before testing
<b>Feline Viral 2 ELISA + FIPV DNA</b>	2 mL EDTA whole blood (Lavender top)	<b>FVED</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results	FeLV Antigen ELISA FIPV DNA FIV Antibody ELISA	FeLV Antigen ELISA: There is no minimum age for testing  FIV Antibody ELISA: Kittens should be at least 5 months of age before testing
<b>Feline Viral III DNA</b>	1 mL EDTA whole blood (Lavender top)	<b>P989</b>	Refrigerate, ship on ice	Please allow 2-3 days (Mon-Fri) for results	FeLV DNA FIPV DNA FIV DNA	
<b>Foal Diarrhea Profile</b>	10 g fresh feces in tightly sealed plastic jar, plus 3-5 g fresh feces in Enteric Pathogen Transport Media in tightly sealed plastic jar (If Enteric Pathogen Transport Media is not available, submit a swab in aerobic transport media)	<b>FOAL1/F ECUL</b>	Fresh feces: Refrigerate, ship on ice Feces in Enteric Pathogen Transport Media: Room temperature	C. difficile and Rotavirus: Referred out, please allow 1 week for results	Clostridium difficile Toxins A & B Cryptosporidium Antigen ELISA Equine Rotavirus Antigen Fecal Culture, ID & Sensitivities Fecal Flotation	

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Test	Specimen	Code	Storage	Schedule	Contents	Comments
<b>Fractional Clearance Panel Sodium, Potassium, Chloride, Calcium, Phosphorus</b>	1 mL serum (SST or Red top), plus 1 mL urine in tightly sealed sterile plastic jar	<b>FCP</b>	Refrigerate, ship on ice	Run on receipt, result same day	Fractional Clearance of Calcium Fractional Clearance of Phosphorus Fractional Clearance of Sodium, Potassium, and Chloride	
<b>Fungal Serology Panel</b>	2 mL serum (SST or Red top)	<b>FUN</b>	Refrigerate, ship on ice	Referred out, please allow 2 weeks for results	Aspergillus spp. Antibody part of Fungal Serology Panel Blastomyces dermatitidis Antibody part of Fungal Serology Panel Coccidioides immitis Antibody part of Fungal Serology Panel Cryptococcus neoformans Antigen part of Fungal Serology Panel Histoplasma capsulatum Antibody part of Fungal Serology Panel	
<b>Gastrointestinal Profile</b>	3-5 g fresh feces in SAF in tightly sealed plastic jar plus 1-2 mL serum (SST or Red top) plus Grey top for glucose if SST not centrifuged	<b>GP</b>	Refrigerate serum, ship on ice Feces in SAF at room temperature	Biochemistry: Run on receipt, results same day O&P: Please allow 2-3 days for results	Alanine Aminotransferase Albumin Albumin/Globulin Ratio Alkaline Phosphatase Amylase Bilirubin (Total) Creatinine Globulin Glucose Lipase Ova and Parasites (sedimentation concentration) Protein (Total) Urea	

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Test	Specimen	Code	Storage	Schedule	Contents	Comments
<b>Glucose Series (6 samples)</b>	0.5 mL serum (centrifuged SST) for each specimen, or 0.5 mL sodium fluoride/potassium oxalate plasma (Grey top)	<b>GLU6</b>	Refrigerate, ship on ice	Run on receipt, result same day	Glucose	SST must be centrifuged after being allowed 20 minutes to clot, gel must completely separate clot and serum  Grey tops should have at least 1 mL of blood drawn or resulting hemolysis may cause falsely elevated results  Sodium fluoride suppresses but doesnot stop glucose metabolism
<b>Hypercalcemia of Malignancy Profile Ionized Calcium + PTH + PTH Related Protein</b>	1 mL frozen EDTA plasma (Lavender top), plus 1 mL frozen serum (SST or Red top)	<b>HMP</b>	Separate and freeze plasma, separate and freeze serum, ship frozen on ice (mandatory)	Referred out, please allow 2 weeks for results	Ionized Calcium PTH Parathyroid Hormone PTH Related Protein	Morning collection of overnight fasting specimen recommended
<b>IDEXX SNAP 4Dx Lyme, Ehrlichia, Anaplasma, Heartworm</b>	0.5 mL serum (SST or Red top)	<b>4DX</b>	Refrigerate, ship on ice	Run on receipt, result same day	SEE IDEXX SNAP 4DX Canine Anaplasma phagocytophilum Antibody SNAP SEE IDEXX SNAP 4DX Canine Ehrlichia canis Antibody SNAP SEE IDEXX SNAP 4DX Canine Heartworm Antigen SNAP SEE IDEXX SNAP 4DX Canine Lyme Disease Antibody SNAP	Wait 4 weeks after tick exposure before testing  Canine Lyme Disease Antibody SNAP distinguishes between vaccination and infection  Quant C6 should be ordered to confirm a positive lyme screen result by SNAP  Positive Heartworm Antigen SNAP on Lavender top submission will have Heartworm Filter performed at no charge
<b>Ionized Calcium + PTH</b>	1 mL frozen serum (SST or Red top)	<b>ICALP</b>	Separate and freeze serum, ship frozen on ice (mandatory)	Referred out, please allow 1-2 weeks for results	Ionized Calcium PTH Parathyroid Hormone	Morning collection of overnight fasting specimen recommended
<b>Ionized Calcium + PTH + Vitamin D</b>	1 mL frozen serum (SST or Red top)	<b>ICALPV</b>	Separate and freeze serum, ship frozen on ice (mandatory)	Referred out, please allow 2 weeks for results	Ionized Calcium PTH Parathyroid Hormone Vitamin D	Morning collection of overnight fasting specimen recommended  Avoid exposure to light

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Test	Specimen	Code	Storage	Schedule	Contents	Comments
<b>Liver Function Panel</b>	1-2 mL serum (SST or Red top) plus Grey top for glucose if SST not centrifuged	<b>LFP</b>	Refrigerate, ship on ice	Run on receipt, result same day	Alanine Aminotransferase Albumin Albumin/Globulin Ratio Alkaline Phosphatase Aspartate Aminotransferase Bile Acids Bilirubin (Conjugated) Bilirubin (Total) Gamma Glutamyl Transferase Globulin Protein (Total) Urea	
<b>Maedi-visna Antibody + Scrapie Resistance Codon 136</b>	1 mL serum (SST or Red top) plus 10 mL EDTA whole blood (Lavender top)	<b>MV136</b>	Refrigerate, ship on ice	Please allow 3-5 days (Mon-Fri) for results	Maedi-visna Antibody AGID Scrapie Resistance Codon 136	
<b>Maedi-visna Antibody + Scrapie Resistance Codon 171</b>	1 mL serum (SST or Red top) plus 10 mL EDTA whole blood (Lavender top)	<b>MV171</b>	Refrigerate, ship on ice	Please allow 3-5 days (Mon-Fri) for results	Maedi-visna Antibody AGID Scrapie Resistance Codon 171	
<b>Maedi-visna Antibody + Scrapie Resistance Codons 136 &amp; 171</b>	1 mL serum (SST or Red top) plus 10 mL EDTA whole blood (Lavender top)	<b>MVSR2D</b>	Refrigerate, ship on ice	Please allow 3-5 days (Mon-Fri) for results	Maedi-visna Antibody AGID Scrapie Resistance Codon 136 Scrapie Resistance Codon 171	
<b>Mini Renal Profile</b>	0.5 mL serum (SST or Red top), plus 1-10 mL urine in tightly sealed sterile plastic jar without preservative (10 mL is ideal but won't be practical in many cases)	<b>MRP</b>	Refrigerate, ship on ice	Run on receipt, result same day	Creatinine Phosphorus Urea Urinalysis (Dipstick & Microscopy)	

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Test	Specimen	Code	Storage	Schedule	Contents	Comments
<b>Phenobarbital + Bromide</b>	1 mL serum (SST or Red top) Serum from a plain Red top tube is recommended for therapeutic drug monitoring	<b>PB</b>	Refrigerate, ship on ice	Please allow 24 hours for results	Bromide Phenobarbital	Collect sample just before next dose of phenobarbital  Animal must have been under bromide treatment for at least 1 month  Fasting sample strongly recommended for Bromide  Serum, especially small volumes of serum, that have been stored in SSTs for >2 days, should not be submitted for Phenobarbital  Reference range provided for Bromide indicates the minimum level that may be effective in controlling seizures; actual effective level for a particular animal may be higher; this guideline applies whether or not the animal is also on phenobarbital
<b>Polyuria/Polydipsia Profile</b>	1 mL serum (SST or Red top) plus Grey top for glucose if SST not centrifuged plus 1-10 mL urine in tightly sealed sterile plastic jar (10 mL is ideal but won't be practical in many cases)	<b>PUPD</b>	Refrigerate, ship on ice	Run on receipt, result same day	Alanine Aminotransferase Alkaline Phosphatase Calcium Creatinine Glucose Urea Urinalysis (Dipstick & Microscopy)	
<b>Preanesthetic Profile 1</b>	2 mL EDTA whole blood (Lavender top) plus 1-2 mL serum (SST or Red top) plus Grey top for glucose if SST not centrifuged	<b>PAP</b>	Refrigerate, ship on ice	Run on receipt, result same day	Alanine Aminotransferase CBC Partial w/o differential, w/o platelets Creatinine Glucose Protein (Total) Urea	

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Test	Specimen	Code	Storage	Schedule	Contents	Comments
<b>Preanesthetic Profile 2</b>	2 mL EDTA whole blood (Lavender top) plus 1-2 mL serum (SST or Red top) plus Grey top for glucose if SST not centrifuged	<b>P010</b>	Refrigerate, ship on ice	Run on receipt, result same day	Alanine Aminotransferase CBC Full with differential and platelets Creatinine Glucose Urea	
<b>Reptile Profile I</b>	0.6 mL heparinized whole blood (1 Green top Lithium Heparin microtainer)	<b>RP1</b>	Refrigerate, ship on ice	Run on receipt, result same day	Aspartate Aminotransferase Avian/Reptile WBC and Differential Calcium Creatine Kinase Phosphorus	If specimen volume may be inadequate, please specify priority of testing
<b>Reptile Profile II</b>	1.2 (0.6 x 2) mL heparinized whole blood (2 Green top Lithium Heparin microtainers)	<b>RP2</b>	Refrigerate, ship on ice	Run on receipt, result same day	Aspartate Aminotransferase Avian/Reptile CBC Calcium Creatine Kinase Phosphorus Protein (Total) Uric Acid	If specimen volume may be inadequate, please specify priority of testing
<b>Reptile Profile III</b>	1.2 (0.6 x 2) mL heparinized whole blood (2 Green top Lithium Heparin microtainers)	<b>RP3</b>	Refrigerate, ship on ice	Run on receipt, result same day	Albumin Albumin/Globulin Ratio Amylase Aspartate Aminotransferase Avian/Reptile CBC Bile Acids Calcium Creatine Kinase Globulin Glucose ISE Panel Sodium, Potassium, Chloride, Na/K Ratio Phosphorus Protein (Total) Uric Acid	If specimen volume may be inadequate, please specify priority of testing
<b>Scrapie Resistance Codons 136 &amp; 171</b>	10 mL EDTA whole blood (Lavender top)	<b>SR2D</b>	Refrigerate, ship on ice	Please allow 3-5 days (Mon-Fri) for results	Scrapie Resistance Codon 136 Scrapie Resistance Codon 171	

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Test	Specimen	Code	Storage	Schedule	Contents	Comments
<b>Spec cPL (Canine PLI), B12 &amp; Folate</b>	1 mL serum (SST or Red top)	<b>PBF</b>	Refrigerate, ship on ice	Batched and run daily (Mon-Fri), results same day. Sample must be in the lab by 10am to be included in that day's run	Spec cPL Canine PLI (Pancreatic Lipase Immunoreactivity) Vitamin B12 & Folate	Fasting specimen recommended  Sensitive to hemolysis due to release of Folate from erythrocytes (serum should be separated from the clot, a centrifuged SST is ideal)
<b>Spider Lamb Syndrome DNA &amp; Scrapie Resistance Codons 136 &amp; 171</b>	10 mL EDTA whole blood (Lavender top)	<b>SSD</b>	Refrigerate, ship on ice	Please allow 3-5 days (Mon-Fri) for results	Scrapie Resistance Codon 136 Scrapie Resistance Codon 171 Spider Lamb Syndrome DNA	
<b>Total Iron Binding Capacity Panel</b>	1 mL serum (SST or Red top)	<b>TIBCP</b>	Refrigerate, ship on ice	Referred out, please allow 1 week for results	Iron Total Iron Binding Capacity Unbound Iron Binding Capacity	TIBC = UIBC + Iron  Sensitive to hemolysis due to release of hemoglobin from erythrocytes (serum should be separated from the clot, a centrifuged SST is ideal)
<b>Urinalysis + Canine Urine Microalbumin</b>	2-10 mL urine in tightly sealed sterile plastic jar without preservative (10 mL is ideal but won't be practical in many cases)	<b>UNACU</b>	Refrigerate, ship on ice	Run on receipt, result same day	Canine Urine Microalbumin Urinalysis (Dipstick & Microscopy)	If Pathologist's Comment is also requested, please include an unstained air-dried smear from sediment
<b>Urinalysis + Feline Urine Microalbumin</b>	2-10 mL urine in tightly sealed sterile plastic jar without preservative (10 mL is ideal but won't be practical in many cases)	<b>UNAFU</b>	Refrigerate, ship on ice	Run on receipt, result same day	Feline Urine Microalbumin Urinalysis (Dipstick & Microscopy)	If Pathologist's Comment is also requested, please include an unstained air-dried smear from sediment
<b>Urinalysis + Urine Culture</b>	1-10 mL urine in tightly sealed sterile plastic jar without preservative (10 mL is ideal but won't be practical in many cases)	<b>UNAUC</b>	Refrigerate, ship on ice	Urinalysis, same day. Urine Culture, please allow 2 days for negative results, longer depending on growth	Aerobic Culture, ID & Sensitivities Urinalysis (Dipstick & Microscopy)	
<b>Vitamin B12 &amp; Folate</b>	1 mL serum (SST or Red top)	<b>BF</b>	Refrigerate, ship on ice	Batched and run on Mon, Wed and Fri, results same day. Sample must be in the lab by 10am in order to be included in that day's run	Folate Vitamin B12	Post prandial values may be elevated, fasting sample strongly recommended  Sensitive to hemolysis due to release of Folate from erythrocytes (serum should be separated from the clot, a centrifuged SST is ideal)

## PROFILE INFORMATION

Issue date: 6/13/2008

Test	Specimen	Code	Storage	Schedule	Contents	Comments
<b>Vomiting/Anorexia/Diarrhea Profile</b>	2 mL EDTA whole blood (Lavender top), plus 1 mL serum (SST or Red top), plus Grey top for glucose if SST not centrifuged, plus 1-10 mL urine in tightly sealed sterile plastic jar (10 mL is ideal but won't be practical in many cases)	<b>VAD</b>	Refrigerate, ship on ice	Run on receipt, results same day Spec cPL (Canine PLI): Batched and run daily (Mon-Fri), results same day. Sample must be in the lab by 10am to be included in that day's run	CBC Full with differential and platelets Clinical Chemistry 3 Spec cPL Canine PLI (Pancreatic Lipase Immunoreactivity) Urinalysis (Dipstick & Microscopy)	
<b>Wellness 1</b>	2 mL EDTA whole blood (Lavender top) plus 1 mL serum (SST or Red top) plus Grey top for glucose if SST not centrifuged	<b>W1</b>	Refrigerate, ship on ice	Run on receipt, result same day	Alanine Aminotransferase Albumin Albumin/Globulin Ratio Alkaline Phosphatase Amylase Bilirubin (Total) Calcium CBC Partial w/o differential, w/o platelets Creatinine Globulin Glucose Protein (Total) Urea	
<b>Wellness 1A</b>	2 mL EDTA whole blood (Lavender top), plus 1 mL serum (SST or Red top), plus Grey top for glucose if SST not centrifuged	<b>W1A</b>	Refrigerate, ship on ice	Run on receipt, result same day	Alanine Aminotransferase Albumin Albumin/Globulin Ratio Alkaline Phosphatase Amylase Bilirubin (Total) Calcium CBC Full with differential and platelets Creatinine Globulin Glucose Protein (Total) Urea	

**PROFILE INFORMATION**

Issue date: 6/13/2008

Test	Specimen	Code	Storage	Schedule	Contents	Comments
<b>Wellness 2</b>	2 mL EDTA whole blood (Lavender top) plus 1 mL serum (SST or Red top) plus Grey top for glucose if SST not centrifuged	<b>W2</b>	Refrigerate, ship on ice	Run on receipt, result same day	CBC Full with differential and platelets Clinical Chemistry 3	

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