



Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
2M Antibody (Comp Neuro Lab) (Masticatory Muscle Myositis)	RO	Serum - 1 mL	Red top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	3 Weeks		
5-Fluorouracil Analysis (5-FU)	LCMS	Requires Antineoplastic Swipe Kit Kits available from PDS, see Antineoplastic Swipe kit - 12 piece	Supplied with kit	Store at 4°C until shipped. Ship on ice packs.	1 - 2 Days		
Acetylcholine Receptor Antibody		(see Myasthenia Gravis (Acetylcholine Receptor Antibody) (Comp Neuro Lab))					
ACTH Stimulation Test	IMMUL	Serum - 0.2 mL for each sample Cost includes 2 cortisols. See PDS website (or Appendix section of printed guide) for Protocols for Testing Adrenal Function.	Red top tube. DO NOT use SST tube. Note: Plasma (EDTA, Heparin) samples are not acceptable.	Refrigerate. Ship on ice packs.	Same day 2 PM cut off		
ACTH Stimulation Test + Additional Sample	IMMUL	Serum - 0.2 mL for each sample Cost includes 3 cortisols. See PDS website (or Appendix section of printed guide) for Protocols for Testing Adrenal Function.	Red top tube. DO NOT use SST tube. Note: Plasma (EDTA, Heparin) samples are not acceptable.	Refrigerate. Ship on ice packs.	Same day 2 PM cut off		
ACTH, Endogenous (Guelph) Canine, Equine	RO	EDTA plasma - 1 mL Fasting sample. Avoid hemolysis.	Purple top tube	Centrifuge and immediately transfer plasma into a plastic tube. Label sample as plasma. Freeze immediately. Ship on ice.	1 Week		
ACTH, Insulin, Leptin Panel (Cornell)	RO	EDTA plasma - 1 mL	Purple top tube	Centrifuge sample within 4 hours of collection. Freeze sample. Ship on ice packs. Include a completed "Agent for Shipment" form.	3 Weeks		
Actinobacillus pleuropneumoniae		(see Multi-APP (Actinobacillus pleuropneumoniae Serology) (RO))					
Adenovirus		(see Canine Vaccine Panel 2 (Cornell))					
Adrenal Panel - Canine (Tennessee)	RO	Serum - 2 mL for each sample Collect post sample 1 hour after injection (2 hours if gel ACTH is used). Gross hemolysis will affect the test. Includes: ACTH Cortisol, Estradiol, Androstenedione, 17-hydroxyprogesterone, Progesterone, Testosterone.	Red top tube	Centrifuge ASAP, separate and freeze. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		



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Adrenal Panel - Ferret (Tennessee)	RO	Serum - 0.5 mL Avoid hemolysis and lipemia. Includes: Estradiol, Androsternedione, 17-hydroxyprogesterone.	Red top tube	Centrifuge ASAP, separate and freeze. Ship on ice packs. Include a completed "Agent for Shipment" form and health certificate.	2 Weeks		
Alanine Aminotransferase		(see Single Chemistry)					
Aldosterone - Post (Michigan) Canine, Equine, Feline	RO	EDTA plasma or serum - 0.5 mL	Purple or red top tube	Centrifuge within 30 minutes of collection. Freeze. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Aldosterone - Pre (Michigan) Canine, Equine, Feline	RO	EDTA plasma or serum - 0.5 mL	Purple or red top tube	Centrifuge within 30 minutes of collection. Freeze. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Alkaline Phosphatase Isoenzyme (Guelph)	RO	Serum or heparinized plasma - 0.5 mL Includes: Alk phos and Alk Phos Isoenzyme. NOTE: this only tests for steroid induced Alk Phos Isoenzyme.	Red or green top tube	Freeze. Ship on ice packs.	1 Week		
Allergy Panel, Environmental (IDEXX) Canine, Feline	RO	Serum - 3 mL Contact PDS for additional information/test selection.	Red top tube	Refrigerate up to 7 days. Freeze for longer storage. Ship on ice packs.	1 Week		
Allergy Panel, Food (IDEXX)	RO	Serum - 3 mL IGE for 24 pet food components.	Red top tube	Refrigerate up to 7 days. Freeze for longer storage. Ship on ice packs.	1 Week		
ALP		(see Single Chemistry)					
ALT		(see Single Chemistry)					
Ammonia - Post (RUH) VMC clients only	RO	Heparinized whole blood - 1 mL Sample must be analyzed within 30 minutes of collection or centrifuged immediately and plasma frozen. Avoid hemolysis. Available to VMC clients only.	Green top tube	Centrifuge immediately. Freeze plasma. Ship plasma on ice.	1 Day		
Ammonia - Resting (RUH) VMC clients only	RO	Heparinized whole blood - 1 mL Sample must be analyzed within 30 minutes of collection or centrifuged immediately and plasma frozen. Avoid hemolysis. Available to VMC clients only.	Green top tube	Centrifuge immediately. Freeze plasma. Ship plasma on ice.	1 Day		
Amylase, Lipase		(see Pancreas (Chemistry Panel))					
Amyloid A (Guelph)	RO	Serum - 0.5 mL Avoid hemolysis.	Red top tube	Refrigerate. Ship on ice packs.	1 Week		



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Anaplasma ELISA	ELISAS	Serum - 1 mL	Red top tube	Refrigerate. Ship on ice packs.	Once per Week		
Anaplasma phagocytophilum - Canine		(see Tick Transmitted Disease Panel (Canine) IDEXX SNAP 4Dx Plus Test)					
Anaplasma phagocytophilum - Equine		(see Tick Transmitted Disease Panel (Equine) IDEXX SNAP 4Dx Plus Test)					
Anaplasma spp. RealPCR (IDEXX)	RO	EDTA whole blood - 2 mL Collect sample prior to antibiotic administration. Includes: Anaplasma phagocytophilum, Anaplasma platys.	Purple top tube	Refrigerate. Ship on ice packs.	2 Weeks		
Anthrax Culture	BACTIC DE-BACTI	Fresh blood or spleen Confirmation by PCR.	Leak proof container	Ship on ice packs.	2 Days		
Anthrax PCR	PCRREALTIME	Anthrax confirmation by PCR			3 - 5 Days		
Anticoagulant Screen (Guelph)	RO	Liver - 10 grams, serum - 5 mL, EDTA blood - 5 mL, suspect material - 20 grams Liver and serum are the best samples. Includes: Brodifacoum, Bromadiolone, Chlorophacinone, Coumachlor, Coumafuryl, Coumatetralyl, Dicoumarol, Difenacoum, Difethialone, Diphacinone, Flocoumafen, Pindone, Valone, Warfarin.	Leak proof container	Refrigerate. Ship on ice packs.	2 Weeks		
Antimicrobial Susceptibility Test (AST) - Bovine Mastitis	BACTKB	Bacterial Culture Additional charge per significant organism.	Leak proof container		1 - 2 Days		
Antimicrobial Susceptibility Test (AST) - Bovine, Ovine, Caprine	BACTKB	Bacterial Culture Additional charge per significant organism.	Leak proof container		1 - 2 Days		
Antimicrobial Susceptibility Test (AST) - Companion - Dermatology/Ear	BACTKB	Bacterial Culture Additional charge per significant organism.	Leak proof container		1 - 2 Days		
Antimicrobial Susceptibility Test (AST) - Companion - General	BACTKB	Bacterial Culture Additional charge per significant organism.	Leak proof container		1 - 2 Days		
Antimicrobial Susceptibility Test (AST) - Equine	BACTKB	Bacterial Culture Additional charge per significant organism.	Leak proof container		1 - 2 Days		
Antimicrobial Susceptibility Test (AST) - Exotic - includes Avian, Reptile, Rabbit, Rodent	BACTKB	Bacterial Culture Additional charge per significant organism.	Leak proof container		1 - 2 Days		



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Antimicrobial Susceptibility Test (AST) - Porcine General	BACTKB	Bacterial Culture Additional charge per significant organism.	Leak proof container		1 - 2 Days		
Antimicrobial Susceptibility Test (AST) - Porcine Respiratory	BACTKB	Bacterial Culture Additional charge per significant organism.	Leak proof container		1 - 2 Days		
Antimicrobial Susceptibility Test (AST) - Poultry	BACTKB	Bacterial Culture Additional charge per significant organism.	Leak proof container		1 - 2 Days		
Antimicrobial Susceptibility Test (AST) MIC - BOPO7F	MIC	Bacterial Culture Additional charge per significant organism.	Leak proof container		1 - 2 Days		
Antimicrobial Susceptibility Test (AST) MIC - COMPAN1F	MIC	Bacterial Culture Additional charge per significant organism.	Leak proof container		1 - 2 Days		
Antimony		(see Mineral Panel #4)					
Anti-Mullerian Hormone (IDEXX) Canine, Equine, Feline	RO	Serum - 1 mL 12 hour fasting sample for canine and feline.	Red top tube. DO NOT use SST tube.	Freeze. Ship on ice packs.	3 Weeks		
Antineoplastic Panel	LCMS	Requires Antineoplastic Swipe Kit	Supplied with kit	Store at 4°C until shipped. Ship on ice packs.	2 - 7 Days		
Antineoplastic Swipe kit – 12 piece							
Antinuclear Antibody - IFA Canine	IFA	Serum - 0.2 mL	Red top tube	Refrigerate. Ship on ice packs.	2 - 3 Days		
Antinuclear Antibody IFA - Non Canine (IDEXX)	RO	Serum - 1 mL	Red top tube	Refrigerate. Ship on ice packs.	1 Week		
Anti-Thrombin III (ATIII) (RUH)	RO	Citrated plasma - 0.5 mL Recollect if 1+ hemolysis. Send a normal animal sample along with the patient. Citrated collection tubes available, contact PDS lab.	Blue top tube (citrate). Sample/anticoagulant ratio is critical - check tube label.	Centrifuge, transfer plasma into a plain plastic tube or plastic syringe - DO NOT use red top tube. Ship frozen.	Phone		
Arsenic		(see Mineral Panel #4)					
Arsenic		(see Mineral Panel #3)					
Asparate Aminotransferase		(see Single Chemistry)					
Aspergillus Serology (Cornell)	RO	Serum - 1 mL (minimum - 0.1 mL) Also see Fungal Panel Serology.	Red top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
AST		(see Single Chemistry)					
ATIII		(see Anti-Thrombin III (ATIII) (RUH))					



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Avian Bacterial and Viral Profile PCR (IDEXX)	RO	Heparinized or EDTA whole blood - 0.1 mL	Green top tube	Refrigerate. Ship on ice packs.	1 Week		
Avian Bornavirus PCR (Guelph)	RO	Tissues, swabs May pool up to 5 samples together, indicate on submission form.	Swab in viral transport media or sterile, leak proof container	Refrigerate. Ship on ice packs.	1 Week		
Avian Encephalomyelitis Virus ELISA (Guelph)	RO	Serum - 0.5 mL	Red top tube	Refrigerate. Ship on ice packs.	2 Weeks		
Avian Influenza (AIV) PCR AI matrix PCR - positive Typing (H5;H7) CFIA Accredited Test	PCRREALTIME	Swabs in transport medium Submit sample by 10:00 AM.	Leak proof container or red top tube	Refrigerate. Ship on ice packs.	3 - 5 Days		
Avian Influenza (AIV) subtyping H5/H7 (PCR) CFIA Accredited Test	PCRREALTIME	Swabs in transport medium Submit sample by 10:00 AM.	Leak proof container	Refrigerate. Ship on ice packs.	3 - 5 Days		
Avian Paramyxovirus (NDV) subtyping PCR (Newcastle Disease Virus) Fusion Gene	PCRREALTIME	Done on Avian Paramyxovirus Matrix PCR positive samples Submit sample by 10:00 AM.	Leak proof container or swab	Refrigerate. Ship on ice packs.	3 - 5 Days		
Avian Paramyxovirus 1 (NDV) PCR (Newcastle Disease Virus)	PCRREALTIME	Tissues, swabs Samples must be received by 10:00 AM for 1 day results.	Swab or leak proof container	Refrigerate. Ship on ice packs.	3 - 5 Days		
Avian/Reptile/Amphibian Mini Panel (Chemistry Panel)	CA	Serum or heparinized plasma - 0.2 mL Includes: Ca, Pi, Glu, CK, AST, Uric Acid	Red or green top tube	Refrigerate. Ship on ice packs.	1 Day		
Avian/Reptile/Amphibian Mini Plus Panel (Chemistry Panel)	CA	Serum or heparinized plasma - 0.2 mL Includes: Ca, Pi, Glu, CK, AST, Uric Acid, Tprot, Alb, Glob, A:G Ratio	Red or green top tube	Refrigerate. Ship on ice packs.	1 Day		
Avian/Reptile/Amphibian Standard Panel (Chemistry Panel)	CA	Serum or heparinized plasma - 0.5 mL Includes: Na, K, Cl, bicarb, anion gap, Ca, Pi, Glu, CK, AST, GLDH, GGT, Chol, Tprot, Alb, Glob, A:G ratio, Uric Acid, Bile Acids. *If NSQ for standard panel, Avian Mini Panel plus Bile Acids will be run.	Red or green top tube	Refrigerate. Ship on ice packs.	1 Day		
B12		(see Cobalamin (B12) (IDEXX))					
Babesia canis IFA Titer (Michigan)	RO	Serum - 1 mL	Red top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Babesia gibsoni IFA - For Export (Michigan) For Export Only Canine	RO	Serum - 1 mL	Red top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		



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Bacterial Culture - Environmental	BACTIC	Environmental samples - swabs, sponges Bacterial Culture only, does not include antimicrobial susceptibility test.	Sterile, leak proof container	Ship on ice packs.	1 - 2 Days		
Bacterial Culture and Susceptibility - Bovine, Ovine, Caprine	BACTIC BACTKB DE-BACTI	Swabs Includes 1 susceptibility.	Sterile, leak proof container or swab	Ship on ice packs.	2 - 4 Days		
Bacterial culture and Susceptibility - Companion - Dermatology/Ear	BACTIC DE-BACTI BACTKB	Derm or ear swab Includes 1 susceptibility.	Sterile, leak proof container or swab	Ship on ice packs.	3 - 5 Days		
Bacterial Culture and Susceptibility - Companion - General	BACTIC BACTKB DE-BACTI	Swabs Includes 1 susceptibility.	Sterile, leak proof container or swab	Ship on ice packs.	2 - 4 Days		
Bacterial Culture and Susceptibility - Equine	BACTIC BACTKB DE-BACTI	Swabs Includes 1 susceptibility.	Sterile, leak proof container or swab	Ship on ice packs.	2 - 4 Days		
Bacterial Culture and Susceptibility - Exotic - includes Avian, Reptile, Rabbit, Rodent	BACTIC BACTKB DE-BACTI	Swabs Includes 1 susceptibility.	Sterile, leak proof container or swab	Ship on ice packs.	2 - 4 Days		
Bacterial Culture and Susceptibility - Porcine General	BACTIC BACTKB DE-BACTI	Swabs, feces Includes 1 susceptibility.	Sterile, leak proof container or swab	Ship on ice packs.	2 - 4 Days		
Bacterial Culture and Susceptibility - Porcine Respiratory	BACTIC BACTKB DE-BACTI	Swabs Includes 1 susceptibility.	Sterile, leak proof container or swab	Ship on ice packs.	2 - 4 Days		
Bacterial Culture and Susceptibility - Poultry	BACTIC BACTKB DE-BACTI	Swabs Includes 1 susceptibility.	Sterile, leak proof container or swab	Ship on ice packs.	2 - 4 Days		
Bacterial Culture and Susceptibility MIC - BOPO7F	BACTIC DE-BACTI MIC	Bacterial Culture Additional charge per significant organism.	Sterile, leak proof container or swab	Ship on ice packs.	1 - 2 Days		
Bacterial Culture and Susceptibility MIC - COMPAN1F	BACTIC DE-BACTI MIC	Bacterial Culture Additional charge per significant organism.	Sterile, leak proof container or swab	Ship on ice packs.	1 - 2 Days		
Bacterial Identification	BACTIC	Bacterial Culture No susceptibility.	Sterile, leak proof container or swab		1 - 2 Days		
Bacteriology - Necropsy Add-on	BACTIC DE-BACTI	Tissues - maximum 3 tissues per animal or per submission	Sterile, leak proof container or swab	Ship on ice packs.	2 - 3 Days		
Bacteriology - Necropsy Add-on (Poultry - 1 ATB)	BACTIC DE-BACTI BACTKB	Tissues - maximum 3 tissues per animal or per submission	Sterile, leak proof container or swab	Ship on ice packs.	2 - 3 Days		



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Baermann (sedimentation) Semi-quantitative Method	SD	Feces - 5 - 10 grams Nematode larvae identification.	Leak proof container	Refrigerate. Ship on ice packs.	2 Days		
Barium		(see Mineral Panel #4)					
Bartonella PCR (Vector Borne)	RO	EDTA whole blood - 2 mL A positive test will result in speciation of the following at no extra charge - B. henselae, B. clarridgeiae, B. quintana, B. vinsonii, B. koehlaerae, B. rochalimae.	Purple top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	4 Weeks		
Bartonella spp. RealPCR (IDEXX)	RO	EDTA whole blood - 2 mL Collect samples prior to antibiotic administration.	Purple top tube	Refrigerate up to 10 days. Ship on ice packs.	1 Week		
Bence-Jones Protein (IDEXX)	RO	Urine - 5 mL	Red top tube or leak proof container	Refrigerate. Ship on ice packs.	2 Weeks		
Beryllium		(see Mineral Panel #4)					
Beta Hydroxybutyrate (BHB) (Guelph)	RO	Serum or heparinized plasma - 0.5 mL	Red or green top tube	Refrigerate. Ship on ice packs.	1 Day		
BHV-1		(see Infectious Bovine Rhinotracheitis (IBR) Virus Isolation)					
Bicarbonate		(see Single Chemistry)					
Bile Acid - Pre and Post Canine, Feline	CA	Serum or heparinized plasma - 0.2 mL for each sample Avoid hemolysis. Fasting and 2 hour post prandial. See PDS website (or Appendix section of printed guide) for Bile Acid Protocol.	Red or green top tube	Refrigerate. Ship on ice packs.	1 Day		
Bile Acid - Single	CA	Serum or heparinized plasma - 0.2 mL Avoid hemolysis.	Red or green top tube	Refrigerate. Ship on ice packs.	1 Day		
Bilirubin, Direct		(see Single Chemistry)					
Bilirubin, Total		(see Single Chemistry)					
BioPRYN ESL	E130	Serum - 0.5 mL Cut off time 3:00 PM Thursday, results Friday PM.	Red tube	Refrigerate. Ship on ice packs.	Once per Week		
Biopsy - Gastrointestinal - >3 Tissues	NCPSURG	Full-thickness or endoscopic gastrointestinal biopsies	Leak proof containers individually labeled	Fix in 10% Formalin for minimum of 24 hours. Transfer tissues to 70% alcohol (isopropyl, ethyl or rubbing alcohol) for shipping in very cold weather.	3 - 5 Days		



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Biopsy - Gastrointestinal - Up to 3 Tissues	NCPSURG	Full-thickness or endoscopic gastrointestinal biopsies	Leak proof containers individually labeled	Fix in 10% Formalin for minimum of 24 hours. Transfer tissues to 70% alcohol (isopropyl, ethyl or rubbing alcohol) for shipping in very cold weather.	3 - 5 Days		
Biopsy - Skin - Dermatohistopathology	NCPSURG	Skin - 6 mm punch or strip biopsies preferred. Skin or orifice lesions but not obvious masses or cysts.	Leak proof containers individually labeled	Fix in 10% Formalin for minimum of 24 hours. Transfer tissues to 70% alcohol (isopropyl, ethyl or rubbing alcohol) for shipping in very cold weather.	2 - 3 Days		
Biopsy - Surgical - > 3 or a single mass > 2 cm dia.	NCPSURG	Incisional (punch or wedge) or excisional biopsy (excludes Dermatohistopathology and Gastrointestinal Biopsies). 4 or more tissues or if the base of any of the submitted tissues (single or combined) exceeds the 6 x 6 cm grid (see Introduction 'Special Information for Surgical/Dermatological Submission' for grid). If more than 10 Histopathology slides are required per submission, each additional slide will be charged the appropriate Histopathology-Paraffin process, embed, cut and stain H & E fee.	Leak proof containers individually labeled	Fix in 10% Formalin for minimum of 24 hours. Transfer tissues to 70% alcohol (isopropyl, ethyl or rubbing alcohol) for shipping in very cold weather.	3 - 5 Days		
Biopsy - Surgical - Up to 3 Tissues	NCPSURG	Incisional (punch or wedge) or excisional biopsy (excludes Dermatohistopathology and Gastrointestinal Biopsies). Up to 3 tissues that if combined will fit into a 6 x 6 cm grid (see Introduction 'Special Information for Surgical/Dermatological Submission' for grid). If more than 10 Histopathology slides are required per submission, each additional slide will be charged the appropriate Histopathology-Paraffin process, embed, cut and stain H & E fee.	Leak proof containers individually labeled	Fix in 10% Formalin for minimum of 24 hours. Transfer tissues to 70% alcohol (isopropyl, ethyl or rubbing alcohol) for shipping in very cold weather.	3 - 5 Days		
Biopsy - Surgical or Skin - 2nd opinion or repeat submission	NCPSURG	Histology slides for second opinion	Slides				
Bismuth		(see Mineral Panel #4)					



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Blastomyces Quantitative Antigen EIA (MiraVista)	RO	Urine, serum, EDTA plasma or CSF - 2 mL Urine is the sample of choice.	Red or purple top tube	Serum, plasma, CSF: refrigerate samples. URINE: Refrigerate samples that will be tested before they are 2 weeks old. Freeze samples that will not be tested before they are 2 weeks old. Samples must be shipped frozen. Include a completed "Agent for Shipment" form.	2 Weeks		
Blastomyces Serology AGID (Cornell)	RO	Serum - 0.5 mL (minimum - 0.2 mL) Also see Fungal Panel Serology.	Red top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Blood Gas Saskatoon Clients Only	BGA	Heparinized whole blood - minimum 1 mL. Serum is not acceptable. Includes: pH, pCO ₂ , pO ₂ , HCO ₃ , BE, Na, K, Cl, glu, lactate, ionized (free) Ca.	Heparinized syringe	Recap syringe immediately after collection (sample must remain anaerobic). Mix well and place on ice pack. Sample must be analyzed within 1 hour of collection. Ship on ice pack.	1 Day		
Blood Grouping Canine, Feline	BGR	EDTA whole blood - 0.5 mL	Purple top tube	Refrigerate. Ship on ice packs.	1 Day		
Blood Parasite - For Export (Michigan)	RO	EDTA whole blood and 2 blood smears (unstained, unfixed) Microscopic examination of blood smear for organisms.	Purple top tube and slides	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Blood Smear Evaluation	HA	2 unstained blood smears or EDTA whole blood	Slides or purple top tube	Refrigerate purple top tube. Ship on ice packs.	1 Day		
Blue Green Algae - Bioassay	BIOASSAY	Water sample at 4°C	Leak proof container	Refrigerate. Ship on ice packs.	8 - 15 Days		
Bluetongue Virus Ab ELISA (Guelph)	RO	Serum - 0.5 mL	Red top tube	Refrigerate. Ship on ice packs.	1 Week		
BLV		(see Bovine Leukosis Virus (BLV) ELISA)					
Borrelia burgdorferi - Canine		(see Tick Transmitted Disease Panel (Canine) IDEXX SNAP 4Dx Plus Test)					
Borrelia burgdorferi - Equine		(see Tick Transmitted Disease Panel (Equine) IDEXX SNAP 4Dx Plus Test)					
Botulism (Clostridium botulinum) MIT (Guelph)	RO	Serum - 1 mL, feed - 5 grams, stomach contents - 5 mL	Red top tube or leak proof container	Ship on ice packs.	7 Weeks		
Mouse Inoculation Test							



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Bovine Adenovirus Virus Isolation	ISO	GI or Respiratory Tract Tissue Pricing for multiple samples - \$23.75 per sample supported price, \$26.25 per sample list price. Contact PDS Lab for information regarding turn around times.	Leak proof container	Refrigerate. Ship on ice packs.			
Bovine Coronavirus		(see Bovine Respiratory Panel - Antibody)					
Bovine Coronavirus and Rotavirus FAT	FAT	Spiral colon or ileum	Leak proof container	Refrigerate. Ship on ice packs.	2 - 5 Days		
Bovine Coronavirus and Rotavirus PCR	PCRREALTIME	Jejunum, ileum, or feces	Swab or leak proof container	Refrigerate. Ship on ice packs.	3 - 5 Days		
Bovine Coronavirus Antibody ELISA	ELISAV	Serum - 1 mL Also see Bovine Respiratory Panel.	Red top tube	Refrigerate. Ship on ice packs.	5 - 10 Days		
Bovine Coronavirus PCR	PCRREALTIME	Spiral colon, ileum or feces	Swab or leak proof container	Refrigerate. Ship on ice packs.	3 - 5 Days		
Bovine Diarrhea Panel	BACTIC BACTKB MICROFAT PCRMULTIPLEX PCRREALTIME RF DE-BACTI	Feces or Intestine - 5 - 10 grams Sample collected from acutely affected non-treated calves. Includes: aerobic culture and susceptibility, anaerobic culture, E. coli Bovine Enteric Virulence Factor Panel for E. coli isolates from calves < 1 week old, duplex PCR for Bovine Rotavirus and Coronavirus, routine flotation for parasites, FAT for cryptosporidium and Giardia.	Leak proof container	Refrigerate. Ship on ice packs.	2 - 7 Days		
Bovine Herpes Mammilitis (BHV-2) Virus isolation	ISO	Vesicle or Lesion Scrapings Pricing for multiple samples - \$23.75 per sample supported price, \$26.25 per sample list price. Contact PDS Lab for information regarding turn around times.	Leak proof container	Refrigerate. Ship on ice packs.	3 Weeks		
Bovine Leukosis Virus (BLV) ELISA	ELISAS	Serum - 1 mL	Red top tube	Refrigerate. Ship on ice packs.	Once per Week		
Bovine Papilloma Virus PCR	PCRREALTIME	Tissues - formalin fixed or embedded	Leak proof container	Refrigerate. Ship on ice packs.	3 - 5 Days		
Bovine Papular Stomatitis PCR (Guelph) Bovine, Caprine, Ovine	RO	Skin biopsy; crust	Leak proof container	Refrigerate. Ship on ice packs.	1 Week		



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Bovine Papular Stomatitis Virus Isolation	ISO	Vesicle or Lesion Scrapings Pricing for multiple samples - \$23.75 per sample supported price, \$26.25 per sample list price. Contact PDS Lab for information regarding turn around times.	Leak proof container	Refrigerate. Ship on ice packs.			
Bovine Parainfluenza 3 (PI3) ELISA	ELISAV	Serum - 1 mL Also see Bovine Respiratory Panel.	Red top tube	Refrigerate. Ship on ice packs.	5 - 10 Days		
Bovine Parainfluenza 3 (PI3) PCR	PCRREALTIME	Lung, nasal swabs or tracheal washings	Swab or leak proof container	Refrigerate. Ship on ice packs.	3 - 5 Days		
Bovine Parainfluenza 3 (PI3) Virus Isolation	ISO	Lung, nasal swabs or tracheal washings Pricing for multiple samples - \$23.75 per sample supported price, \$26.25 per sample list price. Contact PDS Lab for information regarding turn around times.	Swab or leak proof container	Refrigerate. Ship on ice packs.			
Bovine Parainfluenza-3		(see Bovine Respiratory Panel - Antibody)					
Bovine Respiratory Panel - 5 PCR Targets Includes IBR, BRSV, PI-3, BCV and M. bovis	PCRREALTIME	Lung, nasal swabs or tracheal washings	Swab or leak proof container	Refrigerate. Ship on ice packs.	Once per Week		
Bovine Respiratory Panel - 6 PCR Targets Includes IBR, BRSV, PI-3, BCV, M. bovis and BVD	PCRREALTIME	Lung, nasal swabs or tracheal washings	Swab or leak proof container	Refrigerate. Ship on ice packs.	Once per Week		
Bovine Respiratory Panel - 6 PCR Targets + C&S Includes IBR, BRSV, PI-3, BCV, M. bovis and BVD	BACTIC BACTKB PCRREALTIME DE-BACTI	Lung, nasal swabs or tracheal washings	Swab or leak proof container	Refrigerate. Ship on ice packs.	5 - 10 Days		
Bovine Respiratory Panel - Antibody Includes IBR, BRSV, PI-3 and BCV	ELISAV	Serum - 1 mL Volume discounts apply for 15 or more samples.	Red top tube	Refrigerate. Ship on ice packs.	5 - 10 Days		
Bovine Respiratory Syncytial Virus (BRSV) ELISA	ELISAV	Serum - 1 mL Also see Bovine Respiratory Panel.	Red top tube	Refrigerate. Ship on ice packs.	5 - 10 Days		
Bovine Respiratory Syncytial Virus (BRSV) PCR	PCRREALTIME	Lung, nasal swabs or tracheal washings	Swab or leak proof container	Refrigerate. Ship on ice packs.	3 - 5 Days		



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Bovine Respiratory Syncytial Virus (BRSV) Virus Isolation	ISO	Lung, nasal swabs or tracheal washings Successful isolation unlikely unless sample received within hours of collection. Contact PDS Lab for information regarding turn around times.	Leak proof container	Refrigerate. Ship on ice packs.			
Bovine Rotavirus PCR	PCRREALTIME	Jejunum, ileum, or feces	Swab or leak proof container	Refrigerate. Ship on ice packs.	3 - 5 Days		
Bovine Viral Diarrhea (BVD) Skin Biopsy IHC	IMIHC	Discontinued - see Bovine Viral Diarrhea Virus (BVD) Pooled PCR.					
Bovine Viral Diarrhea (BVD) Type 1 Virus Neutralization	SNE	Serum - 1 mL	Red top tube	Refrigerate. Ship on ice packs.	7 - 10 Days		
Bovine Viral Diarrhea (BVD) Type 2 Virus Neutralization	SNE	Serum - 1 mL	Red top tube	Refrigerate. Ship on ice packs.	7 - 10 Days		
Bovine Viral Diarrhea Virus (BVD) PCR	PCRREALTIME	EDTA whole blood - 1 mL (best sample for antemortem transient infection); serum - 1 mL; fresh, unfixed tissue (ileum, lymphoid tissues, kidney, skin). Fixed tissues are not acceptable. Skin biopsy sampling instructions available on PDS website (or Appendix section of printed guide). Contact PDS Lab for information.	Leak proof container or purple top tube	Refrigerate. Ship on ice packs.	3 - 5 Days		
Bovine Viral Diarrhea Virus (BVD) Pooled PCR 2 to 10 samples per pool	PCRREALTIME	Skin biopsy - fresh tissue (fixed tissue is not acceptable); serum - 1 mL from animals > 2 months old. Send individual samples - pooling is done in the lab. Skin biopsy sampling instructions available on PDS website (or Appendix section of printed guide). Contact PDS Lab for information.	Leak proof container or red top tube	Refrigerate. Ship on ice packs.	3 - 5 Days		
Bovine Viral Diarrhea Virus (BVD) Virus Isolation	ISO	Ileum, lymphoid tissues, kidney, or EDTA, heparinized whole blood or serum For PI cattle > 6 months - serum; For PI cattle < 6 months - EDTA or heparin for buffy coat; For acute infection submit EDTA or Heparin for buffy coat.	Leak proof container or red, purple or green top tube	Refrigerate. Ship on ice packs.	7 - 8 Days		
BPAT		(see Brucella abortus (Buffered Plate Agglutination Test - BPAT))					



Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Brachyspira hyodysenteriae and pilosicoli PCR	PCRMULTIPLEX	Spiral colon, intestinal contents, feces or rectal swabs	Leak proof container or swab	Refrigerate. Ship on ice packs.	3 - 5 Days		
Brachyspira hyodysenteriae PCR	PCRREALTIME	Spiral colon, intestinal contents, feces or rectal swabs	Leak proof container or swab	Refrigerate. Ship on ice packs.	3 - 5 Days		
BRAF Mutation		(see Urine BRAF Mutation Detection Assay (Sentinel Biomedical))					
BRSV		(see Bovine Respiratory Panel - Antibody)					
Brucella abortus (Buffered Plate Agglutination Test - BPAT) BPAT setup fee applies	IMAGGL	Serum - 2 mL Less than 2 mL of serum will not be accepted. Requires CFIA form 5473. A set up fee of \$32.95 is added per submission/owner for administrative costs.	Red top tube	Refrigerate. Ship on ice packs.	1 Day		
Brucella abortus Set-up Fee							
Brucella canis Antibody - For Export (Michigan)	RO	Serum Export destination dependent.	Red top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Brucella canis IFA	IFA2	Serum - 1 mL	Red top tube	Refrigerate. Ship on ice packs.	1 - 2 Days		
Brucellosis Tube-ME Agglutination - For Export (Kansas) Canine	RO	Serum - 1 - 2 mL Avoid hemolysis. Export destination dependent.	Red top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form and a "Serology Export" Submission Form.	2 Weeks		
Buffy Coat		(see Cytology - Fluid)					
BVD		(see Bovine Viral Diarrhea Virus (BVD) Pooled PCR)					
Cadmium		(see Mineral Panel #4)					
Cadmium		(see Mineral Panel #3)					
CAE		(see Caprine Arthritis and Encephalitis (CAE) ELISAI)					
Calcium - Ionized Saskatoon Clients Only	BGA	Heparinized whole blood - minimum 1 mL. Serum is not acceptable. Includes: pH, Ionized Ca, Ionized Ca at pH 7.40.	Heparinized syringe	Recap syringe immediately after collection (sample must remain anaerobic). Mix well and place on ice pack. Samples must be analyzed within 1 hour of collection. Ship on ice packs.	1 Day		
Calcium - Tissue		(see Mineral Panel #2)					
Calcium - Total - Serum		(see Single Chemistry)					



Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Calculi (Urolith Centre) Canine, Feline	RO	Calculi (urolith, stone) Must include a completed (including diet) Urolith Submission form in order to receive test at no charge. Forms can be found on the PDS website.	Clean container without preservatives	Put stone in clean, leak proof container without preservatives. Include a completed "Urolith Submission" form	1 Month		
Campylobacter fetus PCR	PCRREALTIME	Tissues	Leak proof container		3 - 5 Days		
Campylobacter fetus ssp venerealis PCR	PCRREALTIME	Preputial wash/scraping or cervical mucus	In Pouch™ TF or PBS	Incubate in Pouch™ TF at 35°C for 48 hours or leave at room temperature and keep warm during shipment.	3 - 5 Days		
Campylobacter fetus ssp. venerealis/Tritrichomonas foetus PCR	PCRREALTIME	Preputial wash/scraping or cervical mucus	In Pouch™ TF medium for both or PBS for C. fetus ssp venerealis only	Incubate in Pouch™ TF at 35°C for 48 hours or leave at room temperature and keep warm during shipment.	3 - 5 Days		
Campylobacter sp. PCR	PCRCONV	Preputial wash/scraping or cervical mucus	In Pouch™ TF or PBS		3 - 5 Days		
Canine Core Vaccine Titer Panel SN and HI (Kansas)	RO	Serum - 1 mL Includes: Distemper, Adenovirus (CAV-2), Parvovirus.	Red top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Canine Distemper Virus IHC (CDV, Distemper) IHC on haired Skin Biopsy	IMIHC	Fresh or Formalin-fixed haired skin biopsy Antemortem demonstration of CDV antigen.	Leak proof container	Fresh tissues - on ice packs; formalin tissues in leak proof container. Protect tissues in formalin from freezing.	2 - 3 Days		
Canine Distemper Virus PCR (Guelph)	RO	EDTA whole blood - 5 mL, CSF - 0.5 mL Dead animal: urinary bladder, intestine, lymph nodes, brain.	Purple top tube	Refrigerate. Ship on ice packs.	1 Week		
Canine Health Screen - Basic Chemistry (standard panel), CBC, UA	CA HA UR	EDTA whole blood - tube 2/3 full (minimum 1/3 full) + 2 blood smears + serum - 0.5 mL + urine - 3 mL If less than minimum received partial results may be reported. Includes: CBC, Canine Standard Panel, Urinalysis.	Purple top tube, slides and red top tube for urine and serum. DO NOT use SST tube. Please label urine vs serum.	Refrigerate. Ship on ice packs.	1 Day		
Canine Health Screen - Complete Chemistry (standard panel), CBC, UA, T4	CA HA UR IMMUL	EDTA whole blood - tube 2/3 full (minimum 1/3 full) + 2 blood smears + serum - 0.5 mL + urine - 3 mL If less than minimum received partial results may be reported. Includes: CBC, Canine Standard Panel, Urinalysis, T4.	Purple top tube, slides and red top tube for urine and serum. DO NOT use SST tube. Please label urine vs serum.	Refrigerate. Ship on ice packs.	1 Day		



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Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Canine Health Screen - Mini Chemistry (standard panel), CBC, T4	CA HA IMMUL	EDTA whole blood - tube 2/3 full (minimum 1/3 full) + 2 blood smears + serum - 0.5 mL If less than minimum received partial results may be reported. Includes: CBC, Canine Standard Panel, T4.	Purple top tube, slides and red top tube. DO NOT use SST tube.	Refrigerate. Ship on ice packs.	1 Day		
Canine Influenza PCR	PCRREALTIME	Nasal swab, transtracheal wash, fresh lung tissue	Leak proof container	Refrigerate. Ship on ice packs.	3 - 5 Days		
Canine Parvovirus SNAP ELISA	ELISAV-I	Feces	Leak proof container	Refrigerate. Ship on ice packs.	1 Day		
Canine Parvovirus Virus Isolation Virus Isolation in Cell Culture	ISO	Feces or Intestine Preferred test if diarrhea is present for several days. Pricing for multiple samples - \$26.25 per sample.	Leak proof container	Refrigerate. Ship on ice packs.	7 - 8 Days		
Canine Standard Panel (Chemistry Panel)	CA	Serum - 0.5 mL Includes: Na, K, Cl, Bicarb, Anion gap, Ca, Pi, Mg, Urea, Creat, Glu, Tbili, Dbili, Ibili, Chol, CK, ALP, ALT, GLDH, GGT, Tprot, Alb, Glob, A:G Ratio, Amylase, Lipase.	Red top tube	Refrigerate. Ship on ice packs.	1 Day		
Canine T4/TSH	IMMUL	Serum - 0.3 mL Canine only.	Red top tube. DO NOT use SST tube. Note: Plasma (EDTA, Heparin) samples are not acceptable.	Refrigerate. Ship on ice packs.	Same day 2 PM cut off		
Canine TSH	IMMUL	Serum - 0.2 mL Canine only.	Red top tube. DO NOT use SST tube. Note: Plasma (EDTA, Heparin) samples are not acceptable.	Refrigerate. Ship on ice packs.	Same day 2 PM cut off		
Canine Vaccine Panel 2 (Cornell)	RO	Serum - 1 mL Paired serum samples are recommended for optimal diagnostic test interpretation. Includes: Distemper SN, Parvo HAI, Adenovirus SN	Red top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Canine Vaccine Panel IFA (IDEXX) IFA	RO	Serum - 1 mL Includes: Canine Distemper, Canine Parvovirus	Red top tube	Refrigerate. Ship on ice packs.	2 Weeks		



Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Canine/Feline LH ESL	E120	Serum - 0.5 mL For neutering status, please collect 2 samples one hour apart. Second sample will only be analyzed if first sample is not definitive.	Red top tube	Refrigerate. Ship on ice packs.	24 Hours after Receipt		
Caprine Arthritis and Encephalitis (CAE) ELISA	ELISAS	Serum - 0.2 mL	Red top tube	Refrigerate. Ship on ice packs.	Once per Week		
Cardiac Troponin (IDEXX) Canine, Equine, Feline	RO	Serum - 1 mL Note: Equine samples may be submitted, but no reference intervals are available.	Red top tube	Refrigerate up to 5 days. Freeze for longer storage. Ship on ice packs.	2 Weeks		
Cardiopet proBNP (IDEXX) Canine, Feline	RO	EDTA plasma or serum - 1 mL Avoid hemolysis.	Purple or red top tube	Refrigerate up to 7 days. Freeze for longer storage. Ship on ice packs.	1 Week		
CBC - Complete Blood Cell Count	HA	EDTA whole blood - tube 2/3 full (minimum 1/3 full) + 2 unstained blood smears If less than minimum received partial results may be reported. Reticulocyte count performed at PDS Labs discretion. EDTA and blood smear will not be analyzed if clots are present in EDTA tube.	Purple top tube (Blue top tube for Corvids) and slides	Refrigerate. Ship on ice packs.	1 Day		
CBC - Partial Only available for Research Projects	HA	EDTA whole blood - tube 2/3 full (minimum 1/3 full) If less than minimum received partial results may be reported. Includes: automated WBC, RBC, Hgb, Hct, and RBC indices. For smear evaluation and platelet count see CBC - Complete. EDTA sample will not be analyzed if clots are present in EDTA tube.	Purple top tube	Refrigerate. Ship on ice packs.	1 Day		



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Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
CBC - WBC & Differential Only available for Research Projects	HA	EDTA whole blood - tube 2/3 full (minimum 1/3 full) + 2 unstained blood smears If less than minimum received partial results may be reported. Includes: automated WBC, RBC, Hgb, Hct, RBC indices, automated platelet count and manual WBC differential. EDTA sample will not be analyzed if clots are present in EDTA tube.	Purple top tube and slides	Refrigerate. Ship on ice packs.	1 Day		
CDV		(see Canine Distemper Virus IHC)					
Chemistry - Single Test		(see Single Chemistry)					
Chemistry Panel - Large Animal Mini Panel - no interpretation	CA	Serum - 0.3 mL Includes: Creatinine, Total Protein, Albumin, Globulin, A:G Ratio. No interpretation.	Red top tube	Refrigerate. Ship on ice packs.	1 Day		
Chlamydomphila abortus PCR	PCRREALTIME	Tissue, abomasal fluid	Swab or leak proof container		3 - 5 Days		
Chlamydomphila psittaci PCR	PCRREALTIME	Tissue, cloacal or eye swabs	Swab or leak proof container	Refrigerate. Ship on ice packs.	3 - 5 Days		
Chloride		(see Single Chemistry)					
Cholesterol		(see Single Chemistry)					
Cholinesterase (Blood)	SPECTRO	Heparinized whole blood - 2 - 6 mL	Green top tube	Ship immediately with ice packs.	1 - 2 Days		
Cholinesterase (Brain)	SPECTRO	Brain - whole avian brain or half a bovine brain	Leak proof container	Freeze immediately. Ship on ice packs.	2 - 5 Days		
Chromium		(see Mineral Panel #4)					
Chronic Kidney Failure Combo Small Animal Kidney/Electrolyte Panel + UA + Urine Prot/Creat Ratio Canine, Feline only	CA UR	Serum - 0.5 mL + urine - 3 mL Includes: Small Animal Kidney/Electrolyte Panel, Urinalysis, Urine Protein/Creatinine Ratio	Red top tube for serum and urine. Please label serum vs urine.	Refrigerate. Ship on ice packs.	1 Day		
CK, Creatine Kinase		(see Single Chemistry)					
Classical Swine Fever Virus (CSF) CFIA accredited Test	PCRREALTIME	Contact PDS Diagnostic Pathologist or PDS lab for details.	Leak proof container	Refrigerate. Ship on ice packs.	3 - 5 Days		
Clostridium difficile Culture	BACTIC	Feces	Leak proof container	Refrigerate. Ship on ice packs.	2 Days		
Clostridium difficile genotyping PCR	PCRMULTIPLEX	Bacterial Culture A, B toxin types.			3 - 5 Days		



Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Clostridium Fluorescent Antibody	FATB	Fresh muscle or cardiac tissues Includes: C. chauvoei, C. novyi, C. septicum, C. sordelli	Leak proof container	Ship on ice packs.	1 - 2 Days		
Clostridium perfringens toxin typing PCR	PCRREALTIME	Bacterial Culture Includes: A, B, C, D, E toxin types.			3 - 5 Days		
Clotting Factor(s) Activity (Cornell)	RO	Citrated plasma - 2 mL Citrated collection tubes available, contact PDS Lab. Factors offered: II, V, VII, VIII, IX, X, XI, XII, XIII. Cost is per factor assayed.	Blue top tube (citrate). Sample/anticoagulant ratio is critical - check tube label.	Centrifuge, transfer plasma into a plain plastic tube or plastic syringe without needle attached - DO NOT use red top tube. Ship frozen, sample must arrive frozen. Include a completed "Agent for Shipment" form.	1 Day		
Coagulation FDP (Fibrin Degradation Products)	CO	Citrated plasma or citrated whole blood Citrated collection tubes available, contact PDS lab.	Blue top tube (citrate). Sample/anticoagulant ratio is critical - check tube label.	Centrifuge, transfer plasma into a plain plastic tube or plastic syringe - DO NOT use red top tube. Ship frozen.	1 Day		
Coagulation PT (Prothrombin Time)	CO	Citrated plasma or citrated whole blood Include a normal animal sample with each submission. Citrate collection tubes available, contact PDS lab.	Blue top tube (citrate). Sample/anticoagulant ratio is critical - check tube label.	Centrifuge, transfer plasma into a plain plastic tube or plastic syringe - DO NOT use red top tube. Ship frozen.	1 Day		
Coagulation PTT (Partial Thromboplastin Time)	CO	Citrated plasma or citrated whole blood Include a normal animal sample with each submission. Citrate collection tubes available, contact PDS lab.	Blue top tube (citrate). Sample/anticoagulant ratio is critical - check tube label.	Centrifuge, transfer plasma into a plain plastic tube or plastic syringe - DO NOT use red top tube. Ship frozen.	1 Day		
Cobalamin (B12) (IDEXX) Canine, Feline	RO	Serum - 1 mL 12 hour fasting sample. Avoid hemolysis.	Red top tube. DO NOT use SST tube.	Refrigerate up to 24 hours. Freeze for longer storage. Ship on ice packs.	1 Week		
Cobalamin (B12), Folate (IDEXX) Canine, Feline	RO	Serum - 1 mL 12 hour fasting sample (6 hours for diabetic animals). Avoid hemolysis and lipemia. Protect from light.	Red top tube. DO NOT use SST tube.	Refrigerate up to 24 hours. Freeze for longer storage. Ship on ice packs.	1 Week		
Cobalamin (B12), Folate, PLI - Canine, Feline (GI Lab)	RO	Serum - 2 mL 12 hour fasting sample. Avoid hemolysis. Protect from light.	Red top tube. DO NOT use SST tube.	Refrigerate for 48 hours. Freeze for longer storage. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Cobalamin (B12), Folate, TLI - Canine (IDEXX)	RO	Serum - 2 mL 12 hour fasting sample. Avoid hemolysis. Protect from light.	Red top tube. DO NOT use SST tube.	Refrigerate for 24 hours. Freeze for longer storage. Ship on ice packs.	1 Week		



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Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Cobalamin (B12), Folate, TLI - Feline (GI Lab)	RO	Serum - 2 mL 12 hour fasting sample. Avoid hemolysis. Protect from light.	Red top tube. DO NOT use SST tube.	Refrigerate for 48 hours. Freeze for longer storage. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Cobalamin (B12), Folate, TLI, PLI - Canine, Feline (GI Lab)	RO	Serum - 2 mL 12 hour fasting sample (6 hours for diabetic animals). Avoid hemolysis and lipemia. Protect from light.	Red top tube. DO NOT use SST tube.	Refrigerate for 48 hours. Freeze for longer storage. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Cobalt		(see Mineral Panel #4)					
Coccidioides Antibody AGID (Cornell)	RO	Serum - 0.5 mL (minimum - 0.2 mL) Also see Fungal Panel Serology.	Red top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Coccidioides Antibody EIA (MiraVista)	RO	Serum - 1 mL	Red top tube	Refrigerate up to 7 days. Freeze up to 6 months. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Coccidioides Antigen Quantitative EIA (MiraVista)	RO	Urine, BAL or other body fluid - 0.5 mL; serum or plasma (EDTA, heparin or sodium citrate) - 1.5 mL; CSF - 1 mL	Red top tube or leak proof container	Refrigerate up to 7 days. Freeze up to 6 months. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Coggins Test		(see Equine Infectious Anemia (EIA) ELISA)					
Complete Blood Cell Count		(see CBC - Complete Blood Cell Count)					
Coombs - Isotyping Isotyping and temp profile	IMHEMA	EDTA whole blood - 1 mL	Purple top tube	Refrigerate. Ship on ice packs.	1 Day		
Coombs Test Combined reagents @37°C	IMHEMA	EDTA whole blood - 1 mL	Purple top tube	Refrigerate. Ship on ice packs.	1 Day		
Copper		(see Mineral Panel #1)					
Coronavirus - Bovine		(see Bovine Respiratory Panel - Antibody)					
Coronavirus DNA - Feline (Health Gene)	RO	EDTA whole blood - 1 mL	Purple top tube	Refrigerate. Ship on ice packs.	1 Week		
Cortisol		(see High Dose Dexamethasone Suppression Test)					
Cortisol		(see Low Dose Dexamethasone Suppression Test)					
Cortisol		(see ACTH Stimulation Test)					



Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Cortisol Post ACTH or Dexamethasone	IMMUL	Serum - 0.2 mL Must accompany a resting Cortisol sample. See PDS website (or Appendix section of printed guide) for Protocols for Testing Adrenal Function.	Red top tube. DO NOT use SST tube. Note: Plasma (EDTA, Heparin) samples are not acceptable.	Refrigerate. Ship on ice packs.	Same day 2 PM cut off		
Cortisol Resting Canine, Equine	IMMUL	Serum - 0.2 mL See ACTH Stimulation (Canine only) or Low or High Dose Dexamethasone Suppression Test for panel pricing.	Red top tube. DO NOT use SST tube. Note: Plasma (EDTA, Heparin) samples are not acceptable.	Refrigerate. Ship on ice packs.	Same day 2 PM cut off		
Cortisol/Creatinine Ratio		(see Urine Cortisol/Creatinine Ratio)					
Corynebacterium pseudotuberculosis Antibody SHI (Caseous lymphadenitis) (UC Davis CAHFS) Canine, Equine, Ovine	RO	Serum - 1 - 2 mL	Red top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Coxiella burnetti PCR CPH and 5-FU Combo Analysis	PCREALTIME	Placenta (see Antineoplastic Panel)	Leak proof container	Refrigerate. Ship on ice packs.	3 - 5 Days		
Creatinine		(see Single Chemistry)					
Cross-Match - Canine	XMATCH	EDTA whole blood + 1 mL serum from recipient and each donor. Price is Crossmatch setup fee. An additional fee of \$13.95 will be charged for each donor.	1 purple top tube and 1 red top tube from recipient and each donor	Refrigerate. Ship on ice packs.	Minimum 2 Hours		
Cross-Match - Equine	XMATCH	EDTA whole blood + 1 mL serum from recipient and each donor. Price is Crossmatch setup fee. An additional fee of \$13.95 will be charged for each donor.	1 purple top tube and 1 red top tube from recipient and each donor	Refrigerate. Ship on ice packs.	Minimum 2 Hours		
Cross-Match - Feline	XMATCH	EDTA whole blood + 1 mL serum from recipient and each donor. Price is Crossmatch setup fee. An additional fee of \$13.95 will be charged for each donor.	1 purple top tube and 1 red top tube from recipient and each donor	Refrigerate. Ship on ice packs.	Minimum 2 Hours		



Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Cross-Match - Miscellaneous	XMATCH	EDTA whole blood + 1 mL serum from recipient and each donor. Price is Crossmatch setup fee. An additional fee of \$13.95 will be charged for each donor.	1 purple top tube and 1 red top tube from recipient and each donor	Refrigerate. Ship on ice packs.	Minimum 2 Hours		
Cryptococcus Antigen (Cornell)	RO	Serum - 0.5 mL or CSF - 0.1 mL Also see Fungal Panel Serology.	Red top tube (serum), sterile container (CSF)	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Cryptosporidium/Giardia FA, Routine Float	MICROFAT RF	Feces - 5 - 10 grams Samples should be received in PDS Lab within 48 hours post collection.	Leak proof container	Refrigerate. Ship on ice packs.	1 Day		
CSF Cytology		(see Cytology - CSF)					
CSF Protein		(see Single Chemistry)					
Culture - Fecal		(see Fecal Culture - Companion)					
Culture - Fecal		(see Fecal Culture - Porcine)					
Culture - Fecal		(see Fecal Culture - Large Animal)					
Cushing's Equine		(see Equine Encephalitis Panel (EEE/WEE) (IDEXX))					
Cyanide Quantitative	SPECTRO	Heparinized whole blood - 2 - 5 mL	Green top tube	Exclude air and seal tightly. Submit immediately or freeze. Ship on ice packs.	2 - 5 Days		
Cyanide Screening	BIOASSAY	Heparinized whole blood - 2 - 5 mL	Green top tube	Exclude air and seal tightly. Submit immediately or freeze. Ship on ice packs.	2 - 5 Days		
Cyclophosphamide (LCMS) (CPH)	LCMS	Requires Antineoplastic Swipe Kit	Supplied with kit	Store at 4°C until shipped. Ship on ice packs.	1 - 2 Days		
Cyclosporine (St. Paul's)	RO	EDTA whole blood - 1 mL Serum is not acceptable.	Purple top tube	Refrigerate. Ship on ice packs.	2 Days		
Cytology - Bone Marrow Core Include a same day CBC - see CBC for charges	CYTO	Fixed bone core + EDTA whole blood - tube 2/3 full (minimum 1/3 full) + 2 blood smears If less than minimum sample received partial results may be reported.	Leak proof container, purple top tube and smears	Refrigerate purple top tube. Ship on ice packs.	1 Day		
Cytology - Bone Marrow Smears Include a same day CBC - see CBC for charges	CYTO	Air-dried, unstained smears + EDTA whole blood - tube 2/3 full (minimum 1/3 full) + 2 blood smears If less than minimum received partial results may be reported. Extra charges (\$6.50 per slide) will apply if more than 8 bone marrow slides are submitted.	Purple top tube and slides	Refrigerate purple top tube. Ship on ice packs.	1 Day		



Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Cytology - Bone Marrow Smears & Core Include a same day CBC - see CBC for charges	CYTO	Fixed bone core + air-dried, unstained smears + EDTA whole blood - tube 2/3 full (minimum 1/3 full) + 2 blood smears If less than minimum received partial results may be reported. Extra charges (\$6.50 per slide) will apply if more than 8 bone marrow slides are submitted.	Leak proof container, purple top tube and smears	Refrigerate purple top tube. Ship on ice packs.	1 Day		
Cytology - CSF	CYTO	CSF - 0.5 mL CSF Protein included if sufficient volume - see Single Chemistry for additional charge. For culture include a red top tube.	Purple top tube and slides	Refrigerate. Ship on ice packs.	1 Day		
Cytology - Fluid 1 tube of fluid	CYTO	Fluid in EDTA - 1 mL + direct smears; for Buffy Coat - EDTA whole blood - tube 2/3 full (minimum 1/3 full); for LE Prep (Lupus Erythematosus) - heparinized whole blood - 3 mL For culture include a red top tube. Price is for one tube of fluid. Discounts apply if submitting more than one tube of fluid (from the same animal at the same time) from same site or different site - see Cytology - Fluids (per site).	Purple top tube and slides	Refrigerate. Ship on ice packs.	1 Day		
Cytology - Fluids (per tube) Price for 1							
Cytology - Fluids (per tube) 2 or more							
Cytology - Multiple Lymph Nodes (>2 sites)	CYTO	Lymph nodes from multiple sites (> 2 sites) submitted at the same time from the same animal - maximum 8 slides. Extra charges (\$6.50 per slide) will apply if more than 8 slides per submission. See Cytology - Smears or Imprints if submitting 1 or 2 lymph node sites.	Slides	Protect smears from formalin.	1 Day		



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Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Cytology - Smears or Imprints Price for 1 site	CYTO	Air-dried, unstained aspirate smear(s) or tissue imprints Discounts apply if submitting multiple sites - see Cytology - Smears or Imprints (per site). Extra charges (\$6.50 per slide) will apply if more than 8 slides submitted per site.	Slides	Protect smears from formalin.	1 Day		
Cytology - Smears or Imprints (per site) Price for 1							
Cytology - Smears or Imprints (per site) Price for 2							
Cytology - Smears or Imprints (per site) Price for 3							
Cytology - Smears or Imprints (per site) Price for 4							
Cytology - Smears or Imprints (per site) Price for 5							
Cytology - Smears or Imprints (per site) Price for 6							
Cytology - Smears or Imprints (per site) Price for 7							
Cytology - Smears or Imprints (per site) Price for 8							
Cytology - Smears or Imprints (per site) Price for 9							
Cytology - Smears or Imprints (per site) 10 or more							
Degenerative Myelopathy (DM) Mutation PCR (Michigan)	RO	EDTA whole blood - 1 mL	Purple top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		



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Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Dermatohistopathology		(see Biopsy - Skin - Dermatohistopathology)					
Diabetic Combo Chemistry (standard panel), CBC, UA, Fructosamine	CA HA UR	EDTA whole blood - tube 2/3 full (minimum 1/3 full) + 2 blood smears + serum - 0.5 mL + urine - 3 mL Canine and Feline only.	Purple top tube, slides and red top tube for urine and serum. DO NOT use SST tube. Please label urine vs serum.	Refrigerate. Ship on ice packs.	1 Day		
Diarrhea RealPCR Panel Comprehensive (IDEXX) Canine, Feline	RO	Feces - 5 grams Feces in fecal culture media are not recommended for testing. Specimens should be collected prior to antibiotic or antiviral treatment or collected at least 2 weeks after withdrawal of these medications.	Sterile, leak proof container	Refrigerate. Ship on ice packs.	1 Week		
Digoxin (RUH) Canine, Feline	RO	Serum - 0.5 mL	Red top tube	Refrigerate. Ship on ice packs.	2 Days		
Direct Exam - Bacteriology	BACTI	Swab, tissues, hair, urine, etc. Acid-fast, Dark-field, Giemsa, Gram stain, KOH, Methylene-blue, wet mount and others.	Sterile, leak proof container	Refrigerate. Ship on ice packs.	1 Day		
Direct Exam - Parasitology	PARA	Swab, tissues, hair, urine, etc. Acid-fast, Gram stain, KOH, wet mount and others.	Sterile, leak proof container	Refrigerate. Ship on ice packs.	1 - 2 Days		
Distemper		(see Canine Distemper Virus IHC)					
Distemper		(see Canine Distemper Virus PCR (Guelph))					
Distemper		(see Canine Vaccine Panel IFA (IDEXX))					
E.coli 13 virulence factors	PCRMULTIPLEX	Bacterial Culture	Leak proof container		3 - 5 Days		
E.coli Bovine enteric virulence factor panel	PCRMULTIPLEX	Bacterial Culture Includes: F5, STa, Stx1, Stx2, Eae	Leak proof container		3 - 5 Days		
E.coli Canine Enteric Panel	PCRMULTIPLEX	Bacterial Culture Includes: STa, Stx1, Stx2, Eae	Leak proof container		3 - 5 Days		
E.coli O157:H7 PCR	PCRREALTIME	Bacterial Culture	Leak proof container		3 - 5 Days		
E.coli Porcine enteric virulence factor panel	PCRMULTIPLEX	Bacterial Culture Includes: F4, LT, STa, STb, Stx2e, Eae, AIDA-I	Leak proof container		3 - 5 Days		
EEE		(see Equine Encephalitis - Eastern (EEE) (IDEXX))					



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Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Ehrlichia canis		(see Tick Transmitted Disease Panel (Canine) IDEXX SNAP 4Dx Plus Test)					
Ehrlichia canis Antibody Screen - For Export (Kansas or Michigan)	RO	Serum - 2 mL Export destination dependent.	Red top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form and a "Serology Export" Submission Form.	2 Weeks		
Ehrlichia canis Routine IFA - Non Export (IDEXX)	RO	Serum - 1 mL Screening dilution 1:40.	Red top tube	Refrigerate. Ship on ice packs.	1 Week		
Ehrlichia spp. RealPCR Test (IDEXX)	RO	EDTA whole blood - 2 mL Includes: E. canis, E. chaffeensis, E. muris, E. ewingii.	Purple top tube	Refrigerate. Ship on ice packs.	4 Weeks		
EHV		(see Equine Respiratory Panel PCR)					
EIA		(see Equine Infectious Anemia (EIA) ELISA)					
EIC		(see Exercise Induced Collapse PCR (Michigan))					
Electrolytes - Sodium, Potassium, Chloride	CA	Serum, heparinized plasma, urine or fluid - 0.2 mL Includes: Na, K, Cl.	Red or green top tube	Refrigerate. Ship on ice packs.	1 Day		
Electrolytes - Urine		(see Urine Electrolyte Panel - Small Animal)					
Electrolytes - Urine		(see Urine Electrolyte Panel - Large Animal)					
Electron Microscopy	VIR	Feces Call PDS Lab prior to submission.	Leak proof container	Refrigerate. Ship on ice packs.	Dependent on equipment availability		
Encephalitis Panel		(see Equine Encephalitis Panel (EEE/WEE) (IDEXX))					
Encephalitozoon cuniculi Panel (PECUN) (IDEXX) - Rabbit	RO	Serum or heparinized plasma - 0.5 mL Avoid hemolysis. Includes: IgG, IgM, CRP.	Red or green top tube	Freeze. Ship on ice packs.	2 Weeks		
Endogenous ACTH		(see ACTH, Endogenous (Guelph))					
EPM		(see Equine Protozoal Myeloencephalitis (Myelitis) (EPM) Western Blot (IDEXX))					
Equine Arteritis Virus PCR (IDEXX)	RO	Nasal swab, EDTA whole blood - 5 mL or semen Dead animal: lung. May pool up to 5 together, indicate on submission form. Pooling not recommended for semen.	Swab in viral transport media, purple top tube or sterile, leak proof container	Refrigerate. Ship on ice packs.	1 Week		



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Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Equine Chorionic Gonadotropin ESL	E120	Serum - 0.5 mL Useful from 38 - 120 days gestation. PMSG - Pregnant mare's serum gonadotropin.	Red top tube	Refrigerate. Ship on ice packs.	24 Hours after Receipt		
Equine Diarrhea RealPCR Panel (IDEXX)	RO	Feces - 5 grams in sterile container and feces in fecal culture (enteric pathogen) transport media (for reflex Salmonella culture if indicated) Collect sample prior to antibiotic administration. Includes: Clostridium difficile toxin A gene, Clostridium difficile toxin B gene, Clostridium perfringens enterotoxin A gene, Clostridium perfringens CPnetE/F toxin gene, Cryptosporidium spp., Equine Coronavirus, Equine Rotavirus, Lawsonia intracellularis, Neorickettsia risticii (Potomac horse fever), Rhodococcus equi and Salmonella spp. RealPCR tests. If the RealPCR test is positive for Salmonella spp., a culture with susceptibilities on selective media for Salmonella will be automatically performed at no additional charge.	Sterile leak proof container and fecal culture transport media	Refrigerate up to 10 days. Ship on ice packs.	1 Week		



Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Equine Diarrhea RealPCR Panel with Lawsonia intracellularis Antibody (IDEXX)	RO	Serum - 1 mL and feces - 5 grams in sterile container and feces in fecal culture (enteric pathogen) transport media (for reflex Salmonella culture if indicated) Collect sample prior to antibiotic administration. Includes: Clostridium difficile toxin A gene, Clostridium difficile toxin B gene, Clostridium perfringens enterotoxin A gene, Clostridium perfringens CPnetE/F toxin gene, Cryptosporidium spp., equine coronavirus, equine rotavirus, Lawsonia intracellularis, Neorickettsia risticii (Potomac horse fever), Rhodococcus equi and Salmonella spp. RealPCR tests. Includes culture and biochemical identification of Salmonella spp. and Lawsonia intracellularis antibody by IPMA.	Red top tube, sterile leak proof container and fecal culture transport media	Refrigerate up to 10 days. Ship on ice packs.	4 Weeks		
Equine Encephalitis - Eastern (EEE) (IDEXX)	RO	Serum - 2 mL	Red top tube	Refrigerate. Ship on ice packs.	3 Weeks		
Equine Encephalitis Panel (EEE/WEE) (IDEXX)	RO	Serum - 2 mL Includes: Eastern and Western Equine Encephalitis antibody by Plaque Reduction Neutralization Test.	Red top tube	Refrigerate. Ship on ice packs.	3 Weeks		
Equine Granulosa Cell Tumor (GCT) Panel II (UC Davis)	RO	Serum - 3 mL Includes: Anti-mullerian (AMH), Inhibin, Testosterone.	Red top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Equine Herpesvirus 1 (EHV1) Subtyping	PCRREALTIME	Done on EHV 1 PCR positive samples			3 - 5 Days		
Equine Herpesvirus 1 (EHV1) Virus Isolation	ISO	Serum - 1 mL	Red tube	Refrigerate. Ship on ice packs.			
Equine Herpesvirus 1 and 4 (EHV1/EHV4) ELISA	ELISAV	Serum - 1 mL Test does not discriminate between type 1 and type 4 exposure.	Red top tube	Refrigerate. Ship on ice packs.	2 - 7 Days		
Equine Herpesvirus 1 and 4 (EHV1/EHV4) PCR	PCRREALTIME	Nasal swab, tracheal wash or EDTA whole blood Detection is specific for type 1 or type 4. Also see Equine Respiratory Panel.	Swab or purple top tube	Refrigerate. Ship on ice packs.	3 - 5 Days		



Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Equine Herpesvirus Type 2 (EHV2) RealPCR (IDEXX)	RO	EDTA whole blood - 7 mL Can also send nasal swabs (no transport media), one from each nostril.	Purple top tube and/or swabs in red top tubes (no transport media).	Refrigerate. Ship on ice packs.	1 Week		
Equine Herpesvirus Type 5 (EHV5) RealPCR (IDEXX)	RO	EDTA whole blood - 7 mL Can also send nasal swabs (no transport media), one from each nostril.	Purple top tube and/or swabs in red top tubes (no transport media).	Refrigerate. Ship on ice packs.	1 Week		
Equine Infectious Anemia (EIA) ELISA	ELISAI	Serum - 2 mL Less than 2 mL of serum will not be accepted. CFIA cost recovery charge added per sample.	Red top tube	Refrigerate. Ship on ice packs.	1 - 2 Days		
Equine Influenza genotyping H3/H7 Genotyping A1 (H7), A2 (H3)	PCRNESTED	Done on Influenza A PCR Positive sample			3 - 5 Days		
Equine Influenza PCR	PCRREALTIME	Nasal swab, transtracheal wash, fresh lung tissue	Leak proof container	Refrigerate. Ship on ice packs.	3 - 5 Days		
Equine Metabolic Syndrome Diagnostic Plan (Cornell)	RO	Serum and EDTA plasma - 1 mL for each sample Includes: ACTH, Insulin, Leptin, Glucose, T4.	Purple and red top tube	Separate and freeze plasma within 4 hours. Separate serum and refrigerate. Label samples as serum vs EDTA plasma. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Equine Polysaccharide Storage Myopathy (PSSM-1) (IDEXX)	RO	EDTA whole blood - 3 - 7 mL or plucked mane hairs with follicle - 20 hair roots	Purple or red top tube	Refrigerate. Ship on ice packs. Hair can be shipped at room temperature.	4 Weeks		
Equine PPID (Cushing's) Profile (Guelph)	RO	EDTA plasma - 1 mL and serum - 1.5 mL Avoid hemolysis. Includes: ACTH, Glucose, Insulin.	Purple and red top tube	Centrifuge samples. Plasma must be transferred to a plastic tube. Label tubes serum vs plasma. Freeze. Ship on ice packs.	2 Weeks		
Equine Protozoal Myeloencephalitis (Myelitis) (EPM) IFAT (UC Davis)	RO	Serum - 2 mL or CSF - 1 mL Includes: SarcoFluor/NeoFluor, Sarcocystis neurona and Neopspora hughesi antibodies by IFAT.	Red top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Equine Protozoal Myeloencephalitis (Myelitis) (EPM) Western Blot (IDEXX)	RO	Serum and/or CSF - 1 mL	Red top tube	Refrigerate. Ship on ice packs.	2 Weeks		
Equine Respiratory Panel PCR	PCRREALTIME	Nasal swab or tracheal wash Includes: Equine Herpesvirus 1 and 4, Equine Influenza virus, Streptococcus equi.	2 swabs or red top tube		3 - 5 Days		



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Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Equine Rotavirus PCR (Guelph)	RO	Feces - 5 grams Includes: Coronavirus PCR, Rotavirus Group A and B PCR.	Sterile, leak proof container	Refrigerate. Ship on ice packs.	1 Week		
Equine Viral Arteritis (EVA) Virus Neutralization	SNE	Serum - 1 mL	Red top tube	Refrigerate. Ship on ice packs.	7 - 10 Days		
Equine Viral Rhinopneumonitis		(see Equine Respiratory Panel PCR)					
Ergot and Mycotoxin Panel 2020 6 Ergots and 13 Mycotoxins	LCMS	Grain, feed - 200 - 2000 grams Includes: Mycotoxins - 3+15- acetyldeoxynivalenol, Aflatoxin B1 , α -Zearalenol, β -Zearalenol, Deoxynivalenol, Diacetoxyscirpenol, Fumonisin B1, Fumonisin B2, HT-2 Toxin, Nivalenol, Ochratoxin A, T-2 Toxin, Zearalenone; Ergots - Ergocornine + Ergocorninine, Ergocristine + Ergocristinine, Ergocryptine + Ergocryptinine, Ergometrine + Ergometrinine, Ergosine + Ergosinine, Ergotamine + Ergotaminine, Total Ergot.	Resealable plastic bag		2 - 7 Days add 2 days if drying required		
Ergot Panel 2020 6 Ergot Alkaloids	LCMS	Grain, feed - 200 - 2000 grams Includes: Ergocornine + Ergocorninine, Ergocristine + Ergocristinine, Ergocryptine + Ergocryptinine, Ergometrine + Ergometrinine, Ergosine + Ergosinine, Ergotamine + Ergotaminine, Total Ergot.	Resealable plastic bag		2 - 7 Days add 2 days if drying required		
Estradiol (RIA) ESL	IMMUNO	Serum - 1 mL Discounts apply if more than one sample is submitted.	Red top tube	Refrigerate. Ship on ice packs.	7 Days after Receipt		
Ethylene Glycol (RUH)	RO	Fluoride oxalate plasma or serum - 0.5 mL Put in smallest tube possible and cap tightly. DO NOT expose to air.	Grey or red top tube	Sample must remain anaerobic. Refrigerate. Ship on ice packs.	1 Day		
EVA, Equine Arteritis Virus		(see Equine Viral Arteritis (EVA) Screening (2 dilutions))					
Exercise Induced Collapse PCR (Michigan) Canine	RO	EDTA whole blood - 1 mL	Purple top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	3 Weeks		



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Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Exotic Mammal Mini (Chemistry Panel)	CA	Serum or heparinized plasma - 0.2 mL Includes: Ca, Pi, Urea, Glu, ALT, CK	Red or green top tube	Refrigerate. Ship on ice packs.	1 Day		
Extraocular Infection Profile (Health Gene) Feline only	RO	EDTA whole blood - 1 mL, swab Includes: Chlamydomphila felis, Feline Herpesvirus, Mycoplasma spp.	Swab or purple top tube	Refrigerate. Ship on ice packs.	2 Weeks		
Factor Assay		(see Clotting Factor(s) Activity (Cornell))					
Fanconi Syndrome (PennGen) Canine, Feline	RO	Urine - free catch or cystocentesis - 3 - 5 mL	Red top tube or leak proof container	Freeze. Ship on ice packs. Include a completed "Agent for Shipment" form.	4 Weeks		
FDP (Fibrin Degredation Products)		(see Coagulation FDP)					
Fecal Culture - Companion	BACTIC BACTKB DE-BACTI	Feces or Intestine Includes: aerobic/anaerobic, Campylobacter, Salmonella. Includes one susceptibility. For additional susceptibility see Antimicrobial Susceptibility Test.	Sterile, leak proof container or swab	Ship on ice packs.	2 - 4 Days		
Fecal Culture - Large Animal	BACTIC BACTKB DE-BACTI	Feces or Intestine Bovine includes: aerobic, Salmonella; Caprine/Ovine includes: aerobic/anaerobic, Salmonella. Includes one susceptibility. For additional susceptibility see Antimicrobial Susceptibility Test.	Sterile, leak proof container or swab	Ship on ice packs.	2 - 4 Days		
Fecal Culture - Porcine	BACTIC BACTKB DE-BACTI	Feces or Intestine Includes: aerobic, Salmonella. Includes one susceptibility. For additional susceptibility see Antimicrobial Susceptibility Test.	Sterile, leak proof container or swab	Ship on ice packs.	2 - 4 Days		
Fecal Egg/Oocyst Count		(see Modified Wisconsin)					
Fecal Flotation - Routine		(see Routine Flotation)					
Fecal Occult Blood	CA	Feces - 3 grams, approximately 1 tsp May take up to 72 hours to confirm results. Meat free diet for 72 hours prior to testing is recommended.	Leak proof container	Refrigerate. Ship on ice packs.	1 - 4 Days		
Fecal Sedimentation		(see Sedimentation)					
Feline Calicivirus/Herpesvirus Virus Isolation	ISO	Nasal or oral swabs, lung, trachea or tonsil Pricing for multiple samples - \$26.25 per sample.	Swab or leak proof container	Refrigerate. Ship on ice packs.	7 - 10 Days		



Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Feline Coronavirus		(see Feline Infectious Peritonitis (FIP) Antibody)					
Feline Health Screen - Basic Chemistry (standard panel), CBC, UA	CA HA UR	EDTA whole blood - tube 2/3 full (minimum 1/3 full) + 2 blood smears + serum - 0.5 mL + urine - 3 mL If less than minimum received partial results may be reported. Includes: CBC, Small Animal Standard Panel, Urinalysis.	Purple top tube, slides and red top tube for urine and serum. Please label urine vs serum.	Refrigerate. Ship on ice packs.	1 Day		
Feline Health Screen - Complete Chemistry (standard panel), CBC, UA, T4	CA HA UR IMMUL	EDTA whole blood - tube 2/3 full (minimum 1/3 full) + 2 blood smears + serum - 0.5 mL + urine - 3 mL If less than minimum received partial results may be reported. Includes: CBC, Small Animal Standard Panel, Urinalysis, T4.	Purple top tube, slides and red top tube for urine and serum. DO NOT use SST tube. Please label urine vs serum.	Refrigerate. Ship on ice packs.	1 Day		
Feline Health Screen - Mini Chemistry (standard panel), CBC, T4	CA HA IMMUL	EDTA whole blood - tube 2/3 full (minimum 1/3 full) + 2 blood smears + serum - 0.5 mL If less than minimum received partial results may be reported. Includes: CBC, Small Animal Standard Panel, T4.	Purple top tube, slides and red top tube. DO NOT use SST tube.	Refrigerate. Ship on ice packs.	1 Day		
Feline Herpesvirus		(see Feline Calicivirus/Herpesvirus Virus Isolation)					
Feline Immunodeficiency Virus (FIV) Antibody IFA (IDEXX)	RO	Serum - 1 mL This test does not distinguish between vaccination and infection.	Red top tube	Refrigerate up to 24 hours. Freeze for longer storage. Ship on ice packs.	3 Weeks		
Feline Immunodeficiency Virus (FIV) Antibody Western Blot (IDEXX)	RO	Serum - 1 mL This test does not distinguish between vaccination and infection.	Red top tube	Refrigerate up to 7 days. Freeze for longer storage. Ship on ice packs.	3 Weeks		
Feline Immunodeficiency Virus/Feline Leukemia Virus		(see FELV/FIV Combo Elisa)					
Feline Infectious Peritonitis (FIP) Antibody	IMPA	Serum - 0.1 mL Does not differentiate between FIP and Enteric Coronavirus.	Red top tube	Refrigerate. Ship on ice packs.	1 - 2 Days		
Feline Leukemia Virus (FeLV) Antigen IFA (IDEXX)	RO	EDTA whole blood - 1 mL and 2 blood smears Bone marrow or lymphoid tissue are also acceptable. Results are not affected by vaccination; detects established intracellular infection.	Purple top tube or leak proof container	Refrigerate. Ship on ice packs.	1 Week		



Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Feline Leukemia Virus (FeLV) PCR (WCVM Vet Path)	RO	EDTA whole blood - 1 mL Bone marrow, fresh or fixed tissue (minimum 2 uncoverslipped slides) are also acceptable.	Purple top tube or leak proof container	Refrigerate. Ship on ice packs.	Phone		
Feline Leukemia Virus/Feline Immunodeficiency Virus		(see FELV/FIV Combo Elisa)					
FeLV		(see Feline Leukemia Virus (FeLV) Antigen IFA (IDEXX))					
FeLV		(see Feline Leukemia Virus (FeLV) PCR (WCVM Vet Path))					
FELV/FIV Combo Elisa	ELISA	Serum, plasma or anticoagulated whole blood (e.g. EDTA, heparin) - 0.2 mL	Red, green or purple top tube	Refrigerate. Ship on ice packs. Serum or plasma can be frozen.	1 Day		
Ferritin ELISA (Kansas) Canine, Equine, Feline	RO	Serum - 0.5 mL	Red top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Ferritin, Iron, TIBC (Kansas) Canine, Equine, Feline	RO	Serum - 0.5 mL	Red top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Fever of Unknown Origin RealPCR Panel, Comprehensive (IDEXX) Canine	RO	EDTA whole blood and urine in a sterile container - 2 mL for each sample Collect samples prior to antibiotic administration. Includes: Anaplasma spp., Babesia spp., Bartonella spp., Blastomyces dermatitidis, Brucella canis, Coccidioides spp., Cryptococcus spp., Ehrlichia spp., Hepatozoon spp., Histoplasma capsulatum, Leishmania spp. Quant, Leptospira spp., Neospora caninum, Rocky Mountain Spotted Fever (Rickettsia rickettsii), Toxoplasma gondii and Trypanosoma cruzi RealPCR tests. Also includes quantification of Leishmania if PCR positive.	Purple top tube and sterile container (urine)	Refrigerate. Ship on ice packs.	1 Week		
Fibrinogen (Guelph) Bovine, Canine, Equine, Feline	RO	Citrated plasma Avoid hemolysis.	Blue top tube (citrate). Sample/anticoagulant ratio is critical - check tube label.	Centrifuge, transfer plasma into a plain plastic tube or plastic syringe - DO NOT use red top tube. Ship frozen.	1 Week		
FIP		(see Feline Infectious Peritonitis (FIP) Antibody)					



Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
FIP Virus RealPCR (IDEXX)	RO	Pleural or abdominal effusion (preferred specimen), tissue aspirates or fresh tissue in sterile container or EDTA whole blood. For positive tests the biotype is identified as either Feline Infectious Peritonitis Virus or Feline Enteric Coronavirus.	Leak proof container or purple top tube	Refrigerate up to 10 days. Fresh tissue refrigerate up to 24 hours, freeze for longer storage. Ship on ice packs.	1 Week		
FIV		(see Feline Immunodeficiency Virus (FIV) Antibody IFA (IDEXX))					
FIV/FeLV		(see FELV/FIV Combo Elisa)					
Flax CDC Triffid FP967 (3 day TAT)	PCRREALTIME	Flax seeds - 2.5 kg	Resealable plastic bag		3 Days		
Flax CDC Triffid FP967 (Same Day)	PCRREALTIME	Flax seeds - 2.5 kg	Resealable plastic bag		1 Day		
Flow Cytometry (Colorado) Canine, Feline	RO	Bone Marrow in EDTA - 0.5 mL, lymph node, body cavity fluid in EDTA and red top tube - 0.4 mL plus EDTA whole blood - 2 mL and 2 fresh blood smears (unstained, uncoverslipped) CBC must be run within 48 hours of sample being collected. Include a copy of in-house CBC results. Samples should be collected Monday or Tuesday for shipping on Wednesday (sample needs to be as fresh as possible).	Red and purple top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Fluid Osmolality (Measured)	CA	Fluid - 0.5 mL	Red top tube	Refrigerate. Ship on ice packs.	1 Day		
Fluid Sodium, Potassium, Chloride	CA	Fluid - 0.2 mL	Red top tube	Refrigerate. Ship on ice packs.	1 Day		
Fluorescent Antibody (Additional Target)	FAT				1 - 2 Days		
Fluorescent Antibody Test (Tissues-2 targets)	FAT	Fresh or frozen tissue Cost is per slide for 2 antigens, for cost of additional targets see Fluorescent Antibody (Additional Target). See individual virus or call PDS Lab for information.	Leak proof container	Refrigerate. Ship on ice packs.	2 - 5 Days		
Folate (IDEXX) Canine, Feline	RO	Serum - 1 mL 12 hour fasting sample. Avoid hemolysis. Protect from light.	Red top tube	Refrigerate up to 24 hours. Freeze for longer storage. Ship on ice packs.	1 Week		



Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Foot and Mouth Disease PCR CFIA Accredited Test	PCRREALTIME	Contact PDS Diagnostic Pathologist or PDS lab for details.	Leak proof container	Refrigerate. Ship on ice packs.	3 - 5 Days		
Francisella tularensis PCR	PCRREALTIME	Tissues	Leak proof container		3 - 5 Days		
Free T4 by Equilibrium Dialysis (Guelph) Canine, Equine, Feline	RO	Serum - 1 mL Separates Free T4 from bound T4 as well as from interfering proteins such as T4 binding proteins and autoantibodies.	Red top tube. DO NOT use SST tube.	Refrigerate up to 5 days. Freeze for longer storage. Ship on ice packs.	3 Weeks		
Free T4 Chemiluminescence (IDEXX) Canine, Feline	RO	Serum - 1 mL	Red top tube. DO NOT use SST tube.	Refrigerate up to 7 days. Freeze maximum 1 month. Ship on ice packs.	1 Week		
Fructosamine Canine, Feline	CA	Serum - 0.5 mL Also see Diabetic Combo.	Red top tube	Refrigerate. Ship on ice packs.	1 Day		
Fructosamine Add-On Canine, Feline	CA	Serum - 0.5 mL Add on to Small Animal Presurgical, Kidney/Electrolyte, Liver or Standard Panel. Does not include the cost of the chemistry panel.	Red top tube	Refrigerate. Ship on ice packs.	1 Day		
Fungal Culture Mycology	BACTIC DE-BACTI	Hair, skin scrapings For dermatophytes.	Tube or other Container		1 - 3 Weeks		
Fungal Panel Serology (Cornell)	RO	Serum - 2 mL (absolute minimum - 0.5 mL) or CSF (Cryptococcus only) - 2 mL (absolute minimum - 0.1 mL) in sterile container Includes: Coccidioides AGID, Blastomyces AGID, Histoplasma AGID, Aspergillus AGID, Cryptococcus antigen.	Red top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Gastrin - Post Sample (Michigan)	RO	Serum - 0.5 mL 24 hour fasting sample.	Red top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Gastrin - Pre Sample (Michigan)	RO	Serum - 0.5 mL 24 hour fasting sample.	Red top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Gentamicin (RUH)	RO	Serum - 1 mL	Red top tube	Refrigerate. Ship on ice packs.	1 Day		
GGT		(see Single Chemistry)					
Glasser's Disease		(see Haemophilus parasuis PCR)					
GLDH		(see Single Chemistry)					
Glucose		(see Single Chemistry)					
Gram positive NARMS MIC (CMV3AGPF)	MIC						



Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Haemophilus parasuis PCR	PCRREALTIME	Tissues, swabs	Leak proof container	Refrigerate. Ship on ice packs.	3 - 5 Days		
HDL		(see High Density Lipoprotein (HDL) (RUH))					
Heartworm		(see Modified Knotts - For Export (Kansas))					
Heartworm		(see Tick Transmitted Disease Panel (Canine) IDEXX SNAP 4Dx Plus Test)					
Hemoplasma spp. PCR (Colorado) Canine, Feline	RO	EDTA whole blood - 1 mL or bone marrow - 0.5 mL Amplifies the DNA of various Hemoplasma species - Mycoplasma haemofelis, Mycoplasma turicensis, Mycoplasma haemominutum. Sequencing is required to distinguish between Mycoplasma haemofelis and Mycoplasma turicensis.	Purple top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Herpesvirus sp. PCR	PCRCONV	Tissues - fresh, formalin fixed or embedded	Formalin in leak proof container or paraffin block.		3 - 5 Days		
High Dose Dexamethasone Suppression Test	IMMUL	Serum - 0.2 mL for each sample Cost includes 3 cortisol. See PDS website (or Appendix section of printed guide) for Protocols for Testing Adrenal Function.	Red top tube. DO NOT use SST tube. Note: Plasma (EDTA, Heparin) samples are not acceptable.	Refrigerate. Ship on ice packs.	1 Day		
Histopathology Process - Frozen section additional cuts (2nd cut ff)	HC	Formalin fixed tissue	Leak proof container	Ship to avoid freezing during cold months. Do not fix or ship in alcohol.	2 - 5 Working Days		
Histopathology Process - Frozen section cut (1st cut)	HC	Formalin fixed tissue	Leak proof container	Ship to avoid freezing during cold months. Do not fix or ship in alcohol.	2 - 5 Working Days		
Histopathology Process - Multi biopsy cassette and cut	HC	Formalin fixed tissue	Leak proof container	Fix in 10% Formalin for minimum of 24 hours. Transfer tissues to 70% alcohol (isopropyl, ethyl or rubbing alcohol) for shipping in very cold weather.	2 - 5 Working Days		



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Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Histopathology Process - Multi biopsy cassette and embed	HC	Formalin fixed tissue	Leak proof container	Fix in 10% Formalin for minimum of 24 hours. Transfer tissues to 70% alcohol (isopropyl, ethyl or rubbing alcohol) for shipping in very cold weather.	2 - 5 Working Days		
Histopathology Process - Multi compartment biopsy cassettes (incl H & E)	HC	Formalin fixed tissue	Leak proof container	Fix in 10% Formalin for minimum of 24 hours. Transfer tissues to 70% alcohol (isopropyl, ethyl or rubbing alcohol) for shipping in very cold weather.	2 - 5 Working Days		
Histopathology Process - Paraffin process	HC	Formalin fixed tissue	Leak proof container	Fix in 10% Formalin for minimum of 24 hours. Transfer tissues to 70% alcohol (isopropyl, ethyl or rubbing alcohol) for shipping in very cold weather.	2 - 5 Working Days		
Histopathology Process - Paraffin process, embed only (per cassette)	HC	Formalin fixed tissue	Leak proof container	Fix in 10% Formalin for minimum of 24 hours. Transfer tissues to 70% alcohol (isopropyl, ethyl or rubbing alcohol) for shipping in very cold weather.	2 - 5 Working Days		
Histopathology Process - Paraffin process, embed, cut (per slide)	HC	Formalin fixed tissue	Leak proof container	Fix in 10% Formalin for minimum of 24 hours. Transfer tissues to 70% alcohol (isopropyl, ethyl or rubbing alcohol) for shipping in very cold weather.	2 - 5 Working Days		
Histopathology Process - Paraffin process, embed, cut, stain H&E	HC	Formalin fixed tissue	Leak proof container	Fix in 10% Formalin for minimum of 24 hours. Transfer tissues to 70% alcohol (isopropyl, ethyl or rubbing alcohol) for shipping in very cold weather.	2 - 5 Working Days		
Histopathology Process - Paraffin recut from block	HC	Paraffin block	Resealable plastic bag		2 - 5 Working Days		
Histopathology Process - Trimming tissue	HC	Formalin fixed tissue	Leak proof container	Fix in 10% Formalin for minimum of 24 hours. Transfer tissues to 70% alcohol (isopropyl, ethyl or rubbing alcohol) for shipping in very cold weather.	2 - 5 Working Days		
Histophilus somni ELISA	ELISAI	Serum - 0.2 mL	Red top tube	Refrigerate. Ship on ice packs.	2 - 7 Days		



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Hypercalcemia Malignancy Profile		(see PTH (Hypercalcemia) Malignancy Profile (Michigan))					
Hyperkalemic Periodic Paralysis (HYPP) (Maxxam) Equine	RO	EDTA whole blood - 3 - 7 mL or plucked mane hairs with follicle - 20 hair roots	Purple top tube or sterile screw top container	Refrigerate. Ship on ice packs. Hair can be shipped at room temperature.	3 Weeks		
HYPP		(see Hyperkalemic Periodic Paralysis (HYPP) (Maxxam))					
IBR		(see Infectious Bovine Rhinotracheitis (IBR) PCR)					
IBR		(see Bovine Respiratory Panel - Antibody)					
IGF1		(see Insulin-Like Growth Factor (IGF1) (Michigan))					
IgG Screen (Qualitative) (IDEXX) Equine (foal)	RO	Serum, EDTA whole blood or plasma - 2 mL	Red or purple top tube	Refrigerate for up to 7 days. Freeze for longer storage. Ship on ice packs.	1 Week		
Immunocytochemistry (ICC) (Colorado) Most Species	RO	4 air dried unstained smears Cavity fluids, bone marrow and blood can be submitted with the slides. Includes cytology.	Slides	Protect smears from formalin. Include a completed "Agent for Shipment" form.	2 Weeks		
Immunoglobulin Quantification 1st sample, per isotype	IMM	Serum - 0.2 mL Contact PDS Lab for species and isotypes available.	Red top tube	Refrigerate. Ship on ice packs.	2 - 3 Days		
Immunoglobulin Quantitation (IgG) RID (Cornell) Canine, Equine, Feline	RO	Serum - 0.5 mL	Red top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	1 Week		
Immunohistochemistry (IHC) - Add-on to PDS case	IMIHC	Formalin-fixed, paraffin embedded tissue derived from PDS Necropsy or Surgical Biopsy cases.			2 - 4 Days		
Immunohistochemistry (IHC) (Companion)	IMIHC	Formalin-fixed tissues or tissues in paraffin block.	Leak proof container	Formalin tissues in leak proof container. Protect tissues in formalin from freezing.	2 - 4 Days		
Immunohistochemistry (IHC) (Food)	IMIHC	Formalin-fixed tissues or tissues in paraffin block.	Leak proof container	Formalin tissues in leak proof container. Protect tissues in formalin from freezing.	2 - 4 Days		
Infectious Bovine Rhinotracheitis		(see Bovine Respiratory Panel - Antibody)					
Infectious Bovine Rhinotracheitis (IBR) ELISA	ELISAV	Serum - 1 mL Also see Bovine Respiratory Panel.	Red top tube	Refrigerate. Ship on ice packs.	5 - 10 Days		



Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Infectious Bovine Rhinotracheitis (IBR) PCR	PCR/REALTIME	Nasal, oral or genital swabs, lung, trachea, fetal liver	Swab or leak proof container	Refrigerate. Ship on ice packs.	3 - 5 Days		
Infectious Bovine Rhinotracheitis (IBR) Virus Isolation	ISO	Nasal or oral swabs, lung, trachea or tonsil Pricing for multiple samples - \$23.75 per sample supported price, \$26.25 per sample list price.	Swab or leak proof container	Refrigerate. Ship on ice packs.	7 - 10 Days		
Infectious Bronchitis Virus (IBV) ELISA (Guelph) Avian	RO	Serum - 0.5 mL	Red top tube	Refrigerate. Ship on ice packs.	2 Weeks		
Influenza A, H3N8 HI (Guelph) Most Species	RO	Serum - 1 mL	Red top tube	Refrigerate. Ship on ice packs.	2 - 3 Weeks		
Influenza A, H7N7 HI (Guelph) Most Species	RO	Serum - 1 mL	Red top tube	Refrigerate. Ship on ice packs.	2 - 3 Weeks		
Influenza, Avian		(see Avian Influenza (AIV) PCR)					
Influenza, Canine		(see Canine Influenza PCR)					
Influenza, Equine		(see Equine Influenza PCR)					
Influenza, Swine		(see Swine Influenza PCR)					
Insulin RIA (Guelph) Canine, Equine, Feline	RO	Serum - 1 mL Fasting sample. Avoid hemolysis.	Red top tube. DO NOT use SST tube.	Centrifuge samples ASAP after collection. Freeze. Ship on ice packs.	2 Weeks		
Insulin/Glucose Ratio (Guelph) Canine, Equine, Feline	RO	Serum or plasma - 1 mL Fasting sample. Avoid hemolysis.	Red or green top tube	Centrifuge within 30 minutes of collection. Freeze. Ship on ice packs.	2 Weeks		
Insulin-Like Growth Factor (IGF1) (Michigan) Most Species	RO	Serum or plasma - 0.5 mL	Red or green top tube	Refrigerate or freeze. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Iodine, Total (Michigan)	RO	Serum or plasma - 1 mL (minimum 0.5 mL) Additional paperwork may be required for large animals - contact PDS Lab prior to submitting samples.	Red or green top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Ionophore Feed Additive Screen (Guelph)	RO	Feed - 100 grams or rumen contents Provide feed additive information, if available. Representative sampling is essential. Includes: Monensin, Narasin, Salinomycin.	Leak proof container	Refrigerate (freeze stomach contents). Ship on ice packs.	3 Weeks		
Iron		(see Mineral Panel #1)					



Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Iron/TIBC (RUH)	RO	Serum - 0.5 mL	Red top tube	Refrigerate. Ship on ice packs.	1 Day		
Itraconazole (MiraVista)	RO	Serum or heparinized plasma - 0.5 mL	Red or green top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Ivermectin Sensitivity		(see Multi-Drug Resistance Gene (MDR1; Ivermectin Sensitivity) (Health Gene))					
Johne's		(see Mycobacterium avium ssp. avium PCR)					
Johne's		(see Mycobacterium paratuberculosis (Johne's) ELISA)					
Johne's Culture		(see Mycobacterium paratuberculosis (Johne's) PCR)					
Johne's Disease		(see Mycobacterium paratuberculosis (Johne's) PCR)					
KBr		(see Potassium Bromide)					
Large Animal Kidney (Chemistry Panel)	CA	Serum - 0.4 mL Includes: Na, K, Cl, Bicarb, Anion Gap, Ca, Pi, Mg, Urea, Creat, Gluc, T.Prot, Alb, Glob, A:G Ratio.	Red top tube	Refrigerate. Ship on ice packs.	1 Day		
Large Animal Liver (Chemistry Panel)	CA	Serum - 0.4 mL Includes: Urea, Gluc, T. Bili, D.Bili, I.Bili, CK, AST, GLDH, GGT, T.Prot, Alb, Glob, A:G Ratio.	Red top tube	Refrigerate. Ship on ice packs.	1 Day		
Large Animal Presurgical (Chemistry Panel)	CA	Serum - 0.4 mL Includes: Na, K, Cl, Urea, Creat, Gluc, CK, AST, GLDH, GGT, T.Prot.	Red top tube	Refrigerate. Ship on ice packs.	1 Day		
Large Animal Standard (Chemistry Panel)	CA	Serum - 0.5 mL Includes: Na, K, Cl, Bicarb, Anion Gap, Ca, Pi, Mg, Urea, Creat, Gluc, T.Bili, D.Bili, I.Bili, CK, AST, GLDH, GGT, T.Prot, Alb, Glob, A:G Ratio.	Red top tube	Refrigerate. Ship on ice packs.	1 Day		
Lawsonia intracellularis PCR	PCRREALTIME	Lesion in ileum, intestinal contents, feces or rectal swabs	Swab or leak proof container	Refrigerate. Ship on ice packs.	3 - 5 Days		
Lawsonia intracellularis PCR (Guelph) Canine, Equine, Feline	RO	Feces - 2 grams (minimum) or intestine (ileum preferred)	Sterile, leak proof container	Refrigerate. Ship on ice packs.	2 Weeks		
LE Prep		(see Cytology - Fluid)					
Lead Analysis - Blood	LEADANALYSER	Heparinized whole blood - 1 mL For tissue refer to Mineral Panel #3 or #4.	Green top tube	Refrigerate. Ship on ice packs.	2 - 5 Days		



Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Leishmania IFA - For Export (Kansas or Michigan)	RO	Serum - 1 mL Export destination dependent.	Red top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Leptospira canicola - For Export (Kansas) Most Species	RO	Serum - 1 mL	Red top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form and a "Serology Export" Submission Form.	2 Weeks		
Leptospira MAT - Not For Export - Canine, Equine (Guelph)	RO	Serum - 1 mL Canine includes: Leptospira pomona, icterohaemorrhagiae, canicola, autumnalis, grippotyphosa, bratislava, hardjo. Equine includes: Leptospira pomona, grippotyphosa, bratislava.	Red top tube	Refrigerate. Ship on ice packs.	2 Weeks		
Leptospira MAT - Not for Export - Food Animal (Guelph) Bovine, Caprine, Ovine, Porcine	RO	Serum - 1 mL Includes: Leptospira pomona, hardjo-bovis, icterohaemorrhagiae.	Red top tube	Refrigerate. Ship on ice packs.	2 Weeks		
Leptospira spp. PCR (Guelph) Most Species	RO	Urine - 2 mL and EDTA blood whole blood - 2 mL; for dead animal - tissue (kidney)	Purple top tube and sterile container (urine)	Refrigerate up to 10 days. Fresh tissue refrigerate up to 24 hours, freeze for longer storage. Ship on ice packs.	1 Week		
Leptospiral Microscopic Agglutination MAT - For Export (Michigan) Canine	RO	EDTA plasma or serum - 1 mL (minimum 0.5 mL)	Purple and red top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Lipase		(see Single Chemistry)					
Lipase		(see Pancreas (Chemistry Panel))					
Low Dose Dexamethasone Suppression Test	IMMUL	Serum - 0.2 mL for each sample Cost includes 3 cortisols. See PDS website (or Appendix section of printed guide) for Protocols for Testing Adrenal Function.	Red top tube. DO NOT use SST tube. Note: Plasma (EDTA, Heparin) samples are not acceptable.	Refrigerate. Ship on ice packs.	1 Day		
Lungworm		(see Baermann (sedimentation))					
Lupus Erythematosus		(see Cytology - Fluid)					
Lutenizing Hormone		(see Canine/Feline LH ESL)					
Lyme Antibody by IFA (IDEXX) Equine	RO	Serum - 1 mL	Red top tube	Refrigerate. Ship on ice packs.	2 Weeks		



Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Lyme Disease - Canine		(see Tick Transmitted Disease Panel (Canine) IDEXX SNAP 4Dx Plus Test)					
Lyme Disease - Equine		(see Tick Transmitted Disease Panel (Equine) IDEXX SNAP 4Dx Plus Test)					
Lyme Disease, Equine Multiplex Assay (Cornell)	RO	Serum - 2 mL; for neurological cases include CSF - 1 mL Indicate on submission form if and when the horse has been vaccinated and which vaccine was used.	Red top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	1 Week		
Magnesium		(see Single Chemistry)					
Magnesium		(see Mineral Panel #1)					
Malignancy Profile		(see PTH (Hypercalcemia) Malignancy Profile (Michigan))					
Malignant Catarrhal Fever (MCF) PCR	PCR/REALTIME	Kidney, liver, brain, or EDTA whole blood - 1 mL EDTA blood Tissues can be formalin fixed or paraffin embedded.	Leak proof container or purple top tube	Refrigerate. Ship on ice packs.	3 - 5 Days		
Manganese		(see Mineral Panel #1)					
Mannheimia haemolytica ELISA	ELISA	Serum - 0.2 mL	Red top tube	Refrigerate. Ship on ice packs.	2 - 7 Days		
Mast Cell Tumor (MCT) Prognostic Panel (Michigan) Canine	RO	Biopsy slides, unstained and uncoverslipped, from PDS cases - minimum 10 slides Additional fees apply for slide preparation - \$6.95 per slide. Call PDS for additional information.	Leak proof container	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Masticatory Muscle Myositis		(see 2M Antibody (Comp Neuro Lab))					
Mastitis Culture	BACTIC	Milk Single sample. Discounts apply if submitting 2 or more - \$8.50 each supported, \$9.50 each list. Additional charge per significant organism - see Antimicrobial Susceptibility Test. Contact PDS Lab before submission.	Sterile, leak proof container	Ship on ice packs.	2 - 4 Days		
MCF		(see Malignant Catarrhal Fever (MCF) PCR)					



Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
McMasters - Small Ruminant Pooled Screening	MCMA	Feces - 5 - 10 grams Collect a fresh feces sample from 15 to 20 animals; at least 10-15 pellets per animal. Place each fecal sample in its own clean, leak proof container. Samples will be pooled at PDS Lab.	Leak proof container	Refrigerate. Ship on ice packs.			
MDR1		(see Multi-Drug Resistance Gene (MDR1; Ivermectin Sensitivity) (Health Gene))					
Mercury	ICPMS	Heparinized whole blood or urine - 2 mL; tissue - liver or kidney (fresh or frozen) - 2 - 5 grams Microwave digestion and ICP-MS analysis.	Green top tube or leak proof container	Refrigerate. Ship on ice packs.	2 - 5 Days		
Metanephrine and Normetanephrine (Marshfield) Canine	RO	Urine - 5 mL Add 0.15 grams (a pinch) of sulfamic acid granules to urine ASAP after collection. Record urine collection time and acidify time on the submission form. Sulfamic acid is available from PDS, contact Lab.	Red top tube or leak proof container	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Methemoglobin	SPECTRO	Heparinized whole blood - 2 mL	Green top tube	Ship immediately with ice packs.	2 - 5 Days		
Microfilaria Differentiation - For Export (Michigan) Canine	RO	EDTA whole blood - 3 mL	Purple top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Mineral Panel - Single Target (ICPMS)	ICPMS	Any single test from Mineral Panel #1, #2, #3 or #4 See Mineral Panel for sample requirements/comments.	Red or green top tube or leak proof container.	Refrigerate. Ship on ice packs.	2 - 5 Days		
Mineral Panel #1	ICPMS	Heparinized plasma or serum - 2 mL; liver (fresh or frozen) - 2 - 5 grams For best zinc results submit dark blue top tubes 6526 or 6527. Includes: Mg, Mn, Fe, Co, Cu, Zn, Se, Mo. Contact the lab for other types of samples. Microwave digestion and ICP-MS analysis.	Red, green or dark blue top tube or leak proof container	Refrigerate. Ship on ice packs.	2 - 5 Days		
Mineral Panel #2	ICPMS	Liver or brain (fresh or frozen) - 2 - 5 grams Includes: K, Ca, Na. Contact the lab for other types of samples. Microwave digestion and ICP-MS analysis.	Leak proof container	Refrigerate. Ship on ice packs.	2 - 5 Days		



Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Mineral Panel #3	ICPMS	Heparinized blood - 2 mL (must be submitted for Lead); heparinized plasma or serum - 2 mL; tissue (fresh or frozen) - 2 - 5 grams Includes: Tl, Pb, As, Cd. Contact lab for other types of samples. Microwave digestion and ICP-MS analysis.	Red or green top tube or leak proof container.	Refrigerate. Ship on ice packs.	2 - 5 Days		
Mineral Panel #4	ICPMS	For lead; heparinized whole blood - 2 mL; tissue (fresh or frozen) - 2 - 5 grams Includes (Be, Mg, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, As, Se, Sr, Mo, Cd, Sn, Sb, Ba, Tl, Pb, Bi). Contact lab for other types of samples or other possible elements. Microwave digestion and ICP-MS analysis.	Green top tube or leak proof container	Refrigerate. Ship on ice packs.	Run Monday and Thursday		
Mite Examination	DS	Deep skin scraping, vacuum sample or hair	Screw top container or red top tube		1 Day		
Modified Knotts - For Export (Kansas) Canine, Feline	RO	EDTA whole blood - 1 mL	Purple top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form and a "Serology Export" Submission Form.	2 Weeks		
Modified Wisconsin Molybdenum	PARA	Feces - 5 - 10 grams (see Mineral Panel #1)	Leak proof container	Refrigerate. Ship on ice packs.	1 - 2 Days		
Monensin		(see Rumensin (Monensin) (Guelph))					
Multi-APP (Actinobacillus pleuropneumoniae Serology) (RO)	RO	Serum - 1 mL Referred out test.	Red top tube	Refrigerate. Ship on ice packs.	3 - 7 Days		
Multi-Drug Resistance Gene (MDR1; Ivermectin Sensitivity) (Health Gene) Canine	RO	EDTA whole blood - 2 mL	Purple top tube	Refrigerate. Ship on ice packs.	3 Weeks		



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Muscle and Nerve Profile - 1st Nerve and Muscle (Comp Neuro Lab)	RO	Muscle and nerve biopsy PDS Lab must be notified one day prior to sample collection and samples must be in the PDS Lab by 10:00 AM the day of collection. See Comparative Neuromuscular website (http://vetneuromuscular.ucsd.edu/samplerrequirements.html) for collection instructions. For additional Nerves see Muscle and/or Nerve - each additional.	Leak proof container	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	3 Weeks		
Muscle and/or Nerve - each additional (Comp Neuro Lab)	RO	Muscle and/or nerve biopsy See Muscle Profile or Muscle and Nerve Profile for test information and price for first sample.	Leak proof container	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Muscle Profile - 1st Muscle (Comp Neuro Lab)	RO	Muscle biopsy PDS Lab must be notified one day prior to sample collection and samples must be in the PDS Lab by 10:00 AM the day of collection. See Comparative Neuromuscular website (http://vetneuromuscular.ucsd.edu/samplerrequirements.html) for collection instructions. For additional Nerves see Muscle and/or Nerve - each additional.	Leak proof container	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	3 Weeks		
Myasthenia Gravis (Acetylcholine Receptor Antibody) (Comp Neuro Lab) Canine, Feline	RO	Serum - 1 mL	Red top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	3 Weeks		
Mycobacterium avium ssp. avium PCR	PCRCONV	Fixed tissues	Leak proof container		3 - 5 Days		
Mycobacterium bovis PCR	PCRREALTIME	Fixed tissues	Leak proof container		3 - 5 Days		
Mycobacterium paratuberculosis (Johne's) ELISA	ELISAS	Serum - 1 mL	Red top tube	Refrigerate. Ship on ice packs.	Once per Week		



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Mycobacterium paratuberculosis (Johne's) PCR	PCRREALTIME	Feces, lymph node, or intestine - 2 - 5 grams DO NOT submit fecal samples in gloves. Contact PDS Lab prior if submitting a large batch of samples (>20). Turnaround times can be up to one month for large batches.	Leak proof container	Refrigerate. Ship on ice packs.	3 - 5 Days		
Mycobacterium paratuberculosis (Johne's) Pooled PCR	PCRREALTIME	Feces submitted in individual leak proof containers DO NOT submit fecal samples in gloves. Pooling is done at the laboratory (5:1). Contact lab prior if submitting a large batch of samples (>20). Turnaround times can be up to one month for large batches.	Leak proof container or red top tube	Refrigerate. Ship on ice packs.	5 Days		
Mycobacterium sp. PCR	PCRCONV	Fixed tissues (see Fungal Culture)	Leak proof container		3 - 5 Days		
Mycology		(see Fungal Culture)					
Mycoplasma bovis PCR	PCRREALTIME	Swabs, lung, or joint	Swab or leak proof container		3 - 5 Days		
Mycoplasma Culture	BACTIC	Call PDS Lab for testing availability and sample instructions. See Mycoplasma PCR.			4 - 10 Days		
Mycoplasma gallisepticum and synoviae PCR	PCRREALTIME	Swabs, respiratory tract or broth culture			3 - 5 Days		
Mycoplasma haemofelis and haemominutum PCR	PCRMULTIPLY	EDTA or Citrated whole blood - 1 mL Samples should be received in PDS Lab within 48 hours post collection.	Purple or Blue top tube (citrate)	Refrigerate. Ship on ice packs.	3 - 5 Days		
Mycoplasma hyopneumoniae ELISA	ELISAS	Serum - 1 mL	Red top tube	Refrigerate. Ship on ice packs.	1 - 2 Days		
Mycoplasma hyopneumoniae ELISA DAKO	ELISADAKO	Serum - 1 mL	Red top tube	Refrigerate. Ship on ice packs.	1 - 2 Days		
Mycoplasma hyopneumoniae ELISA DAKO (RO)	RO	Serum - 2 mL	Red top tube	Refrigerate. Ship on ice packs.	Phone		
Mycoplasma hyopneumoniae PCR	PCRREALTIME	Fresh or fixed tissue, oral fluids - 1 mL fluid	Red top tube or leak proof container	Refrigerate. Ship on ice packs.	3 - 5 Days		
Mycoplasma hyorhinis PCR	PCRREALTIME	Fresh or fixed tissue, oral fluids - 1 mL fluid	Red top tube or leak proof container	Refrigerate. Ship on ice packs.	3 - 5 Days		
Mycoplasma hyosynoviae PCR	PCRREALTIME	Fresh or fixed tissue, oral fluids - 1 mL fluid	Red top tube or leak proof container	Refrigerate. Ship on ice packs.	3 - 5 Days		



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Mycoplasma sp. Identification by gene sequencing (RO)	RO	Genetic material	Leak proof container		Minumum 1 Week		
Mycoplasma species PCR	PCRCONV	Tissues, swabs	Swab or leak proof container	Refrigerate. Ship on ice packs.	3 - 5 Days		
Mycotoxin and Ergot Panel		(see Ergot and Mycotoxin Panel 2020)					
Mycotoxin Screen 2020	LCMS	Grain, feed - 200 - 2000 grams Includes: 3+15-acetyldeoxynivalenol, Aflatoxin B1 , α -Zearalenol, β -Zearalenol, Deoxynivalenol, Diacetoxyscirpenol, Fumonisin B1, Fumonisin B2, HT-2 Toxin, Nivalenol, Ochratoxin A, T-2 Toxin, Zearalenone.	Resealable plastic bag		2 - 7 Days add 2 days if drying required		
Myoglobin (Urine)	CA	Urine - 3 mL	Red top tube	Refrigerate. Ship on ice packs.	1 Day		
NDV		(see Avian Paramyxovirus 1 (NDV) PCR)					
Necropsy - After Hours Admission Fee							
Necropsy - Gross and Histo – Emergency Necropsy Includes Necropsy, after hours admission, and staff call back fees	NCPHISTO	Whole animals for post-mortem examination outside normal business hours, includes histopathology if required. If more than 10 Histopathology slides are required per submission, each additional slide will be charged the appropriate Histopathology-Paraffin process, embed, cut and stain H & E fee.	Leak proof container or vehicle (covered)	Chill and ship to lab as soon as possible after death.	5 - 10 Days		
Necropsy - Gross and Histo - Insurance or Legal	NCPHISTO	Whole animals for post-mortem examination, includes histopathology if required. SPCA Investigation exempt during normal business hours, see Necropsy - Whole Animal - Gross and Histo. If more than 10 Histopathology slides are required per submission, each additional slide will be charged the appropriate Histopathology-Paraffin process, embed, cut and stain H & E fee.	Leak proof container or vehicle (covered)	Chill and ship to lab as soon as possible after death.	5 - 10 Days		



Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Necropsy – Portions - Gross and Histo - 1st animal - multiple tissues	NCPHISTO	Tissue samples from one animal for histopathology. If more than 10 Histopathology slides are required per submission, the appropriate Histopathology-Paraffin process, embed, cut and stain H&E fee will apply for each slide. If more than 10 Histopathology slides are required per submission, each additional slide will be charged the appropriate Histopathology-Paraffin process, embed, cut and stain H & E fee.	Leak proof container	Fix in 10% Formalin for minimum of 24 hours. Transfer tissues to 70% alcohol (isopropyl, ethyl or rubbing alcohol) for shipping in very cold weather.	5 - 10 Days		
Necropsy - Portions - Gross and Histo - additional animals - same owner - multiple tissue Per animal charge	NCPHISTO	Tissue samples from additional animals from the same owner for histopathology. Cost will be applied to each additional animal tissues are submitted from. If more than 10 Histopathology slides are required per submission, the appropriate Histopathology-Paraffin process, embed, cut and stain H&E fee will apply for each slide. If more than 10 Histopathology slides are required per submission, each additional slide will be charged the appropriate Histopathology-Paraffin process, embed, cut and stain H & E fee.	Leak proof container	Fix in 10% Formalin for minimum of 24 hours. Transfer tissues to 70% alcohol (isopropyl, ethyl or rubbing alcohol) for shipping in very cold weather.	5 - 10 Days		
Necropsy - Portions - Up to 3 Tissues	NCPHISTO	Formalin fixed tissue If more than 10 Histopathology slides are required per submission, each additional slide will be charged the appropriate Histopathology-Paraffin process, embed, cut and stain H & E fee.	Leak proof container	Fix in 10% Formalin for minimum of 24 hours. Transfer tissues to 70% alcohol (isopropyl, ethyl or rubbing alcohol) for shipping in very cold weather.	3 - 5 Days		
Necropsy - Release of Remains for Cremation - Companion (completed Release of Remains form required)							



Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Necropsy - Release of Remains for Cremation - Large Animal (completed Release of Remains form required)							
Necropsy - Sample Preparation Fee							
Necropsy - Small Poultry Flock	NCPHISTO	Whole animals for Post-mortem examination. If more than 10 Histopathology slides are required per submission, each additional slide will be charged the appropriate Histopathology-Paraffin process, embed, cut and stain H & E fee.	Leak proof container or vehicle (covered)	Chill and ship to lab as soon as possible after death.	5 - 10 Days		
Necropsy - Whole Animal - Gross and Histo - 1st animal - Companion	NCPHISTO	Whole animal from post-mortem examination. If more than 10 Histopathology slides are required per submission, the appropriate Histopathology-Paraffin process, embed, cut and stain H&E fee will apply for each slide. If more than 10 Histopathology slides are required per submission, each additional slide will be charged the appropriate Histopathology-Paraffin process, embed, cut and stain H & E fee.	Leak proof container or vehicle (covered)	Chill and ship to lab as soon as possible after death.	5 - 10 Days		
Necropsy - Whole Animal - Gross and Histo - 1st animal - Livestock & Horses	NCPHISTO	Whole animal from post-mortem examination. If more than 10 Histopathology slides are required per submission, the appropriate Histopathology-Paraffin process, embed, cut and stain H&E fee will apply for each slide. If more than 10 Histopathology slides are required per submission, each additional slide will be charged the appropriate Histopathology-Paraffin process, embed, cut and stain H & E fee.	Leak proof container or vehicle (covered)	Chill and ship to lab as soon as possible after death.	5 - 10 Days		



Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Necropsy - Whole Animal - Gross and Histo - additional animals - same owner Per animal charge	NCPHISTO	Additional animals from same owner from post-mortem examination. Cost will be applied to each additional animal submitted. If more than 10 Histopathology slides are required per submission, the appropriate Histopathology-Paraffin process, embed, cut and stain H&E fee will apply for each slide. If more than 10 Histopathology slides are required per submission, each additional slide will be charged the appropriate Histopathology-Paraffin process, embed, cut and stain H & E fee.	Leak proof container or vehicle (covered)	Chill and ship to lab as soon as possible after death.	5 - 10 Days		
Necropsy - Whole Fetus - Gross and Histo	NCPHISTO	Fetus or placenta If more than 10 Histopathology slides are required per submission, each additional slide will be charged the appropriate Histopathology-Paraffin process, embed, cut and stain H & E fee.	Leak proof container	Chill and ship to lab as soon as possible after death.	5 - 10 Days		
Neorickettsia Risticii		(see Potomac Horse Fever (Neorickettsia risticii) RealPCR (IDEXX))					
Neospora caninum Antibody IFA (Colorado) Canine	RO	Serum - 0.5 mL Detects IgG antibodies to Neospora caninum.	Red top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Neospora ELISA Bovine only	ELISAS	Serum - 1 mL	Red top tube	Refrigerate. Ship on ice packs.	Once per Week		
Neospora spp. PCR (IDEXX)	RO	CSF - 0.5 mL Collect samples prior to antibiotic administration.	Red top tube	Refrigerate. Ship on ice packs.	1 Week		
Nerve Profile, Periperal Nerve - 1st nerve (Comp Neuro Lab)	RO	Nerve biopsy PDS Lab must be notified one day prior to sample collection and samples must be in the PDS Lab by 10:00 AM the day of collection. See Comparative Neuromuscular website (http://vetneuromuscular.ucsd.edu/samplereq_uirements.html) for collection instructions. For additional Nerves see Muscle and/or Nerve - each additional.	Leak proof container	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	3 Weeks		
New Castle Disease Virus		(see Avian Paramyxovirus 1 (NDV) PCR)					



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Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Nickel		(see Mineral Panel #4)					
Nitrate Screen	CHEM	Feed or GI contents - 5 grams feed; 2 - 5 grams GI contents	Leak proof container		1 - 2 Days		
Nitrite - Quantitative	SPECTRO	Heparinized whole blood or plasma - 2 mL; ocular fluid - 1 mL	Grey or red top tube	Ship immediately with ice packs.	1 - 2 Days		
Non-esterified fatty acids (NEFA) (Guelph)	RO	Serum and EDTA plasma - 0.5 mL	Red or purple top tube	Refrigerate. Ship on ice packs.	1 Day		
Occult blood		(see Fecal Occult Blood)					
Ophthalmic Biopsy	NCPSURG	Enucleation, evisceration, other biopsies of the eye and related structures. Both pathologist and ophthalmologist will review and sign off the case.	Leak proof container	Fix in 10% Formalin for minimum of 24 hours. Transfer tissues to 70% alcohol (isopropyl, ethyl or rubbing alcohol) for shipping in very cold weather.	1 Week		
Ophthalmic Combo - Globe and Biopsy	NCPSURG	Enucleation, evisceration, other biopsies of the eye and related structures. Both pathologist and ophthalmologist will review and sign off the case.	Leak proof container	Fix in 10% Formalin for minimum of 24 hours. Transfer tissues to 70% alcohol (isopropyl, ethyl or rubbing alcohol) for shipping in very cold weather.	1 Week		
Ophthalmic Globe	NCPSURG	Enucleation, evisceration, other biopsies of the eye and related structures. Both pathologist and ophthalmologist will review and sign off the case.	Leak proof container	Fix in 10% Formalin for minimum of 24 hours. Transfer tissues to 70% alcohol (isopropyl, ethyl or rubbing alcohol) for shipping in very cold weather.	1 Week		
OPP		(see Ovine Progressive Pneumonia (OPP) ELISA)					
ORF		(see Ovine Contagious Ecthyma (ORF) Virus isolation)					
Orf Virus		(see Bovine Papular Stomatitis PCR (Guelph))					
Osmolality (Measured)	CA	Serum - 0.5 mL Fluid samples see Fluid Osmolality. Urine samples see Urine Osmolality.	Red top tube	Refrigerate. Ship on ice packs.	1 Day		
Ovine Contagious Ecthyma (ORF) Virus isolation	ISO	Vesicle or Lesion Scrapings Pricing for multiple samples - \$23.75 per sample supported price, \$26.25 per sample list price.	Leak proof container	Refrigerate. Ship on ice packs.			
Ovine Herpesvirus 2		(see Malignant Catarrhal Fever (MCF) PCR)					
Ovine Progressive Pneumonia (OPP) ELISA	ELISAS	Serum - 0.2 mL	Red top tube	Refrigerate. Ship on ice packs.	Once per Week		



Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Pancreas (Chemistry Panel)	CA	Serum - 0.2 mL Includes: Amylase and Lipase.	Red top tube	Refrigerate. Ship on ice packs.	1 Day		
Pancreatic Lipase Immunoreactivity (PLI) (Health Gene) Canine, Feline	RO	Serum - 1 mL Plasma is not acceptable. 12 hour fasting sample.	Red top tube	Refrigerate for up to 7 days. Freeze for longer storage. Ship on ice packs.	1 Week		
Parasite ID	ID	Deep skin scraping, vacuum sample or hair	Screw top container or red top tube		1 - 2 Days		
Parathyroid Hormone and Ionized Calcium		(see PTH (Parathyroid Hormone) and Ionized Calcium (Michigan))					
Parathyroid Hormone Related Protein		(see PTH (Hypercalcemia) Malignancy Profile (Michigan))					
PARR (PCR for Antigen Receptor Rearrangements) (Colorado) Canine, Feline	RO	EDTA whole blood, lymph node or other organ fluid, cavity fluid, CSF - 0.2 mL for each sample	Purple top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Parvovirus		(see Canine Vaccine Antibody Titer (Cornell))					
Parvovirus		(see Canine Vaccine Panel IFA (IDEXX))					
Parvovirus		(see Canine Parvovirus SNAP ELISA)					
Pasteurella multocida Toxin A PCR	PCRREALTIME	Bacterial Culture	Leak proof container	Refrigerate. Ship at room temperature.	3 - 5 Days		
PCR for Antigen Receptor Rearrangements		(see PARR (PCR for Antigen Receptor Rearrangements) (Colorado))					
PCV/TP/Blood Smear Evaluation	HA	EDTA whole blood - tube 1/3 full or 5 heparinized microhematocrit tubes + 2 blood smears	Slides and purple top tube or heparinized microhematocrit tubes	Refrigerate. Ship on ice packs.	1 Day		
PEDV		(see Porcine Corona Panel PCR)					
PEDv IFA (Iowa) (RO)	RO	Jejunum, ileum or colon, feces	Swab or leak proof container	Refrigerate. Ship on ice packs.	1 Week		



Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
PEDv/TGEv PCR	PCRREALTIME	Jejunum, ileum, colon, feces, PEDv collection kits Testing performed Tuesday and Thursday, results available the following day. Samples must be received in PDS Lab by 10:00 AM for next day results. STAT charges apply for testing requested outside designated days. Also see Porcine Corona Panel.	Swab or leak proof container	Refrigerate. Ship on ice packs.	Twice Per Week Results Following Day		
Phenobarb	IMMULDRUG	Serum - 0.2 mL	Red top tube. DO NOT use SST tube. Note: Plasma (EDTA, Heparin) samples are not acceptable.	Refrigerate. Ship on ice packs.	Tues and Fri 2 PM cut off		
Phenobarbital/Potassium Bromide		(see Potassium Bromide/Phenobarb Combo)					
Phosphorus		(see Single Chemistry)					
PLI		(see Pancreatic Lipase Immunoreactivity (PLI) (Health Gene))					
Porcine circovirus-2 PCR	PCRREALTIME	Tissue, serum, feces, oral fluids - 1 mL serum	Leak proof container or red top tube	Refrigerate. Ship on ice packs.	3 - 5 Days		
Porcine circovirus-2 Subtyping PCR	PCRREALTIME	Tissue, serum, feces, oral fluids - 1 mL serum	Leak proof container	Refrigerate. Ship on ice packs.	3 - 5 Days		
Porcine circovirus-3 PCR	PCRREALTIME	Tissue, serum, feces, oral fluids - 1 mL serum	Leak proof container	Refrigerate. Ship on ice packs.	3 - 5 Days		
Porcine Corona Panel PCR (PEDV, TGEV, PdCov)	PCRREALTIME	Feces, jejunum, colon, ilium, environmental samples Testing performed Tuesday and Thursday, results available the following day. Samples must be received by 10:00 AM for next day results. STAT charges apply for testing requested outside designated days.	Swab or leak proof container	Refrigerate. Ship on ice packs.	Twice Per Week Results Following Day		
Porcine Diarrhea Panel - Late Nursery, Finishing or Adult	BACTIC BACTKB PCRREALTIME DE-BACTI	Feces or Intestine - 5 - 10 grams Sample collected from late nursery, finishing or adult pigs (or other pigs at veterinarian discretion). Includes: Culture & Susceptibility, Porcine Corona Panel PCR, Lawsonia PCR, Brachyspira hyodysenteriae and pilosicoli PCR	Leak proof container	Refrigerate. Ship on ice packs.	2 - 7 Days		



Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Porcine Diarrhea Panel - Late Suckling and Early Nursery	BACTIC BACTKB PCRMULTIPLEX PCRREALTIME DE-BACTI	Feces or Intestine - 5 - 10 grams Sample collected from late suckling or early nursery pigs (or other pigs at veterinarian discretion). Includes: Culture & Susceptibility, E.coli Porcine Enteric Virulence Factor Panel PCR, Porcine Corona Panel PCR, Porcine Rotavirus A, B, C	Leak proof container	Refrigerate. Ship on ice packs.	2 - 7 Days		
Porcine Diarrhea Panel - Neonatal	BACTIC BACTKB PCRMULTIPLEX PCRREALTIME DE-BACTI	Feces or Intestine - 5 - 10 grams Sample collected from neonatal pigs (or other pigs at veterinarian discretion). Includes: Culture & Susceptibility, Clostridium difficile Culture, Clostridium perfringens Culture, E.coli Porcine Enteric Virulence Factor Panel PCR, Porcine Corona Panel PCR, Porcine Rotavirus A, B, C	Leak proof container	Refrigerate. Ship on ice packs.	2 - 7 Days		
Porcine Epidemic Diarrhea Virus		(see Porcine Corona Panel PCR)					
Porcine Epidemic Diarrhea Virus		(see PEDv/TGEv PCR)					
Porcine Parvovirus PCR	PCRREALTIME	Tissues	Swab or leak proof container	Refrigerate. Ship on ice packs.	3 - 5 Days		
Porcine Reproductive and Respiratory Syndrome		(see PRRS ELISA)					
Porcine Rotavirus Group Specific A,B or C PCR	PCRREALTIME	Jejunum, ileum, or feces	Swab or leak proof container	Refrigerate. Ship on ice packs.	3 - 5 Days		
Potassium - Serum		(see Electrolytes - Sodium, Potassium, Chloride)					
Potassium - Tissue		(see Mineral Panel #2)					
Potassium Bromide	IMMULDRUG	Serum - 0.5 mL	Red top tube. DO NOT use SST tube. Note: Plasma (EDTA, Heparin) samples are not acceptable.	Refrigerate. Ship on ice packs.	Tues and Fri 2 PM cut off		



Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Potassium Bromide/Phenobarb Combo	IMMULDRUG	Serum - 0.7 mL	Red top tube. DO NOT use SST tube. Note: Plasma (EDTA, Heparin) samples are not acceptable.	Refrigerate. Ship on ice packs.	Tues and Fri 2 PM cut off		
Potomac Horse Fever (Neorickettsia risticii) RealPCR (IDEXX) Canine, Equine	RO	EDTA whole blood - 2 mL or feces - 5 grams (minimum - 1 gram)	Purple top tube or leak proof container	Refrigerate up to 5 days. Ship on ice packs.	2 Weeks		
Presurgical Panel - Large Animal		(see Large Animal Presurgical (Chemistry Panel))					
Presurgical Panel - Small Animal		(see Small Animal Presurgical (Chemistry Panel))					
Progesterone (RIA) ESL	IMMUNO	Serum - 0.5 mL Discounts apply if more than one sample is submitted.	Red top tube	Refrigerate. Ship on ice packs.	Mon - Fri 24 Hours after receipt		
Protein Electrophoresis (Guelph) Most Species	RO	Serum - 0.5 mL; urine - 50 mL	Red top tube or leak proof container	Refrigerate. Ship on ice packs.	1 Week		
Protein/Creatinine Ratio		(see Urine Protein/Creatinine Ratio)					
PRRS (NorthAM/Eu) Pooled PCR Porcine Reproductive and Respiratory Syndrome	PCRREALTIME	Dacron swab, semen, oral fluid - 1 mL, serum - 1 mL, adult tonsil or lung, fetal thoracic fluid or thymus Testing performed Monday and Thursday, results available the following day. Samples must be received by 10:00 AM for next day results. STAT charges apply for testing requested outside designated days.	Leak proof container, red top tube or swab	Refrigerate. Ship on ice packs.	Twice Per Week Results Following Day		
PRRS ELISA Porcine Reproductive and Respiratory Syndrome	ELISAS	Serum - 1 mL Same day results if received by 9:00 AM.	Red top tube	Refrigerate. Ship on ice packs.	1 - 2 Days		
PRRS IFA Porcine Reproductive and Respiratory Syndrome	PRRSIFA	Serum - 1 mL	Red top tube	Refrigerate. Ship on ice packs.	1 - 2 Days		



Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
PRRS PCR Porcine Reproductive and Respiratory Syndrome	PCRREALTIME	Dacron swab, semen, oral fluid - 1 mL, serum - 1 mL, adult tonsil or lung, fetal thoracic fluid or thymus Testing performed Monday and Thursday, results available the following day. Samples must be received by 10:00 AM for next day results. STAT charges apply for testing requested outside designated days.	Leak proof container, red top tube or swab	Refrigerate. Ship on ice packs.	Twice Per Week Results Following Day		
Psittacine Beak and Feather Disease DNA (Health Gene)	RO	Heparinized whole blood, tissue, feces	Green top tube or leak proof container	Refrigerate. Ship on ice packs.	1 Week		
PT, Prothrombin Time		(see Coagulation PT)					
PTH (Hypercalcemia) Malignancy Profile (Michigan) Canine, Feline	RO	Serum - 1 mL and EDTA plasma - 0.5 mL Avoid lipemia (use fasting sample if needed) and hemolysis. Includes: PTH, PTHrP, Ionized Calcium.	Red and purple top tube	Centrifuge samples within 1 hour of collection. Remove serum and plasma. Label tubes serum and EDTA plasma. Freeze ASAP. Ship frozen on ice packs. Must arrive below 60°F. Include a completed "Agent for Shipment" form.	2 Weeks		
PTH (Parathyroid Hormone) and Ionized Calcium (Michigan) Canine, Equine, Feline	RO	Serum - 1 mL Avoid lipemia (use fasting sample if needed) and hemolysis. Includes: PTH and Ionized Calcium.	Red top tube	Allow to clot 30 - 60 minutes prior to separation. Remove serum. Freeze ASAP. Ship frozen on ice packs. Must arrive below 60°F. Include a completed "Agent for Shipment form".	2 Weeks		
PTHrP (Parathyroid Hormone Related Protein) (Michigan) Most Species	RO	EDTA plasma - 0.5 mL Avoid lipemia (use fasting sample if needed) and hemolysis.	Purple top tube	Centrifuge sample within 1 hour of collection. Remove plasma. Freeze ASAP. Ship frozen on ice packs. Must arrive below 60°F. Include a completed "Agent for Shipment" form.	2 Weeks		
PTT, Partial Thromboplastin Time		(see Coagulation PTT)					
Pug Dog Encephalitis (UC Davis Genetics Lab)	RO	EDTA whole blood - 3 - 5 mL or Buccal Swab (cytology brush) - 2 - 3 required Contact UC Davis Genetics Lab (www.vgl.ucdavis.edu/services/index.php) for swabs.	Purple or red top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	4 Weeks		



Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Rabies Micro RFFIT Core Vaccine Screen Titer (Kansas) Canine, Feline	RO	Serum - 1 mL	Red top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	3 Weeks		
Rabies Titer FAVN - For Export (Kansas)	RO	Serum - 1 mL Microchip number is required.	Red top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form and a completed "FAVN Report" Submission Form	3 - 4 Weeks		
Relaxin ESL	E120	Serum - 0.5 mL	Red top tube	Refrigerate. Ship on ice packs.	24 Hours after Receipt		
Respiratory Disease RealPCR Panel (Comprehensive) (IDEXX) Canine	RO	Deep pharyngeal swab (with visible organic material on swab) and a conjunctival swab (wipe eye clean, swab inside eyelid). Submit both swabs in same tube. Collect prior to antibiotic administration.	Dry, plastic-stemmed swabs, without transport media, in a red top tube or sterile container	Refrigerate. Ship on ice packs.	1 Week		
Rheumatoid Factor (IDEXX) Canine	RO	Serum - 1 mL	Red top tube	Refrigerate. Ship on ice packs.	2 Weeks		
Rhodococcus equi RealPCR (IDEXX) Equine	RO	Tracheal wash - 5 - 10 mL, feces - 5 grams Submit feces if patient shows signs of diarrhea.	Sterile, leak proof container	Refrigerate. Ship on ice packs.	1 Week		
Rickettsia PCR (Vector Borne) Canine, Feline	RO	EDTA whole blood and serum (if available) - 2 mL for each sample	Purple and red top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Rickettsia rickettsii IFA (Michigan) Canine, Equine	RO	Serum - 2 mL	Red top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Rickettsia rickettsii PCR (Michigan) Most Species	RO	EDTA whole blood - 2 mL or tick in sterile container	Purple top tube or leak proof container	Send tick dry or in saline solution. Refrigerate blood. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		



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Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Ringworm (Dermatophyte) RealPCR Panel (IDEXX) Canine, Feline	RO	Plucked hair with follicles and skin scrapings from active border of lesion, nails with nail bed scrapings or aspirated purulent material. Collect prior to antifungal treatment or at least 2 weeks after withdrawal of these medications.	Sterile, leak proof container	Refrigerate. Ship on ice packs.	1 Week		
Rotavirus/Coronavirus PCR (Guelph) Equine	RO	Nasal swab or feces. Dead animal: lung, colonic mucosa. Includes: Coronavirus, Rotavirus Group A and B.	Swab in viral transport media or sterile, leak proof container	Refrigerate or freeze. Ship on ice packs.	1 Week		
Routine Flotation	PARA	Feces - 5 - 10 grams	Leak proof container	Refrigerate. Ship on ice packs.	1 - 2 Days		
Rumensin (Monensin)		(see Ionophore Feed Additive Screen (Guelph))					
Salmonella Dublin	ELISAS	Serum - 1 mL or milk (individual or bulk tank) - 2 mL	Red top tube or leak proof container	Refrigerate. Ship on ice packs.	Once per Week		
Salmonella Dublin Antibody ELISA (Guelph) Bovine	RO	Serum - 0.5 mL	Red top tube	Refrigerate. Ship on ice packs.	1 Week		
Salmonella Screening	BACTIC	Feces. No susceptibility. Contact the PDS Lab for volume discounts.	Sterile, leak proof container	Ship on ice packs.	5 Days		
Salmonella Screening - Fluff/Dust	BACTIC	Fluff, dust, environmental sponge. No susceptibility.	Sterile, leak proof container	Ship on ice packs.	5 Days		
SDMA (IDEXX) Canine, Equine, Feline	RO	Serum, lithium heparin or EDTA plasma - 1 mL	Red, green or purple top tube	Refrigerate. Ship on ice packs.	1 Week		
Selenium		(see Mineral Panel #1)					
Sequencing Confirmation Add-on	PCRSQ						
Single Chemistry	CA	Serum, heparinized plasma, urine or fluid - 0.2 mL	Red top tube	Refrigerate. Ship on ice packs.	1 Day		
SIV H1N1/H3N2 ELISA (RO)	RO						
SIV H3N2 ELISA (RO)	RO						
Skin Biopsies		(see Biopsy - Skin - Dermatohistopathology)					
Small Animal Kidney/Electrolyte (Chemistry Panel)	CA	Serum - 0.4 mL. Includes: Na, K, Cl, Bicarb, Anion Gap, Ca, Pi, Urea, Creat, Gluc, T.Prot, Alb, Glob, A:G Ratio, Na:K Ratio.	Red top tube	Refrigerate. Ship on ice packs.	1 Day		



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Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Small Animal Liver (Chemistry Panel)	CA	Serum - 0.4 mL Includes: Urea, Gluc, Chol, T. Bili, D.Bili, I.Bili, ALP, ALT, GLDH, GGT, T.Prot, Alb, Glob, A:G Ratio.	Red top tube	Refrigerate. Ship on ice packs.	1 Day		
Small Animal Presurgical (Chemistry Panel)	CA	Serum - 0.4 mL Includes: Na, K, Cl, CK, Urea, Creat, Gluc, ALP, ALT, GLDH, GGT, T.Prot.	Red top tube	Refrigerate. Ship on ice packs.	1 Day		
Small Animal Presurgical Combo Chemistry (presurgical panel), CBC, UA	CA HA UR	EDTA whole blood - tube 2/3 full (minimum 1/3 full) + 2 blood smears + serum - 0.5 mL + urine - 3 mL Includes: CBC, Presurgical Panel and Urinalysis.	Purple top tube, slides and red top tube for urine and serum. DO NOT use SST tube. Please label urine vs serum.	Refrigerate. Ship on ice packs.	1 Day		
Small Animal Standard (Chemistry Panel)	CA	Serum - 0.5 mL For Canines see Canine Standard Panel. Includes: Na, K, Cl, Bicarb, Anion Gap, Ca, Pi, Mg, Urea, Creat, Gluc, T.Bili, Chol, CK, ALP, ALT, GLDH, GGT, T.Prot, Alb, Glob, A:G Ratio,	Red top tube	Refrigerate. Ship on ice packs.	1 Day		
Sodium - Serum		(see Electrolytes - Sodium, Potassium, Chloride)					
Sodium - Tissue		(see Mineral Panel #2)					
Sodium, Potassium, Chloride		(see Electrolytes - Sodium, Potassium, Chloride)					
STAT Fee							
Strangles		(see Equine Respiratory Panel PCR)					
Streptococcus equi		(see Equine Respiratory Panel PCR)					
Streptococcus equi RT PCR	PCREALTIME	Nasal swab Also see Equine Respiratory Panel.	Swab	Refrigerate. Ship on ice packs.	3 - 5 Days		
Streptococcus equi subsp. equi (Strangles) Antibody ELISA (IDEXX)	RO	Serum - 1 mL This test does not distinguish between vaccination and infection.	Red top tube	Refrigerate. Ship on ice packs.	2 Weeks		
Strontium		(see Mineral Panel #4)					
Strychnine Solvent extraction analysis	SPECTRO	Stomach, gizzard contents, meat, grain, crop contents or bait samples - 5 grams Contact laboratory for other types of sample.	Leak proof container	Refrigerate. Ship on ice packs.	2 - 5 Days		
Surgical Biopsies		(see Biopsy - Surgical - Up to 3 Tissues)					
Swine Influenza A ELISA	ELISAS	Serum - 1 mL	Red top tube	Refrigerate. Ship on ice packs.	1 - 2 Days		



Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Swine Influenza PCR	PCRREALTIME	Nasal swab, fresh lung tissue, oral fluid - 1 mL	Leak proof container	Refrigerate. Ship on ice packs.	3 - 5 Days		
Swine Influenza subtyping H1/H3 typing PCR	PCRREALTIME	Done on SIV Matrix PCR positive sample			3 - 5 Days		
T3 Triiodothyronine	IMMUL	Serum - 0.2 mL Sample must be received in the PDS Lab before 2:00 PM for same day results.	Red top tube. DO NOT use SST tube. Note: Plasma (EDTA, Heparin) samples are not acceptable.	Refrigerate. Ship on ice packs.	1 Day		
T4 Canine, Equine, Feline	IMMUL	Serum - 0.2 mL Sample must be received in the PDS Lab before 2:00 PM for same day results.	Red top tube. DO NOT use SST tube. Note: Plasma (EDTA, Heparin) samples are not acceptable.	Refrigerate. Ship on ice packs.	1 Day		
T4 Resting Canine, Equine, Feline	IMMUL	Serum - 0.2 mL Sample must be received in the PDS Lab before 2:00 PM for same day results.	Red top tube. DO NOT use SST tube. Note: Plasma (EDTA, Heparin) samples are not acceptable.	Refrigerate. Ship on ice packs.	1 Day		
T4/TSH		(see Canine T4/TSH)					
Taurine (UC Davis Amino Acid Lab)	RO	Heparinized plasma - 1 mL or urine - 5 mL	Green top tube or leak proof container	Collect blood in a green top tube, invert 5 times to mix heparin. Immediately centrifuge blood, take off plasma being careful not to disturb the buffy coat; freeze sample. Urine - freeze. Ship frozen on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Testosterone (RIA) ESL	IMMUNO	Serum - 0.5 mL Discounts apply if more than one sample is submitted.	Red top tube	Refrigerate. Ship on ice packs.	2 Days		
TGE/PRCV Differentiation ELISA	ELISADIFF	Serum - 1 mL	Red top tube	Refrigerate. Ship on ice packs.	1 - 2 Days		
Thallium		(see Mineral Panel #4)					
Thallium		(see Mineral Panel #3)					
Thyroglobulin Autoantibodies (TgAA) (IDEXX) Canine	RO	Serum - 1 mL	Red top tube. DO NOT use SST tube.	Refrigerate up to 5 days. Freeze for longer storage. Ship on ice packs.	1 Week		



Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Thyroid Mini Panel - Canine (IDEXX)	RO	Serum - 2 mL Includes: T4, Free T4, TSH. No interpretation provided.	Red top tube. DO NOT use SST tube.	Refrigerate for up to 7 days. Freeze for longer storage. Ship on ice packs.	1 Week		
Thyroid OFA Registry - Canine (IDEXX)	RO	Serum - 2 mL Includes: Thyroglobulin Autoantibodies, TSH, Free T4 by Equilibrium Dialysis. Include completed OFA Application for Thyroid Database form. OFA Registration fee (\$15.00 US funds) must be included with submission.	Red top tube. DO NOT use SST tube.	Refrigerate up to 5 days. Freeze for longer storage. Ship on ice packs.	2 Weeks		
Thyroid Profile - Feline (IDEXX)	RO	Serum - 1 mL Includes: Free T4, T3, T4.	Red top tube. DO NOT use SST tube.	Refrigerate up to 7 days. Freeze maximum 1 month. Ship on ice packs.	1 Week		
Thyroid Profile 1 - Canine (IDEXX)	RO	Serum - 2 mL Includes: TSH, Free T4, T3, T4, Thyroglobulin Autoantibodies.	Red top tube. DO NOT use SST tube.	Refrigerate up to 5 days. Freeze for longer storage. Ship on ice packs.	1 Week		
Thyroid Profile 1 - Equine (Guelph)	RO	Serum - 1 mL Includes: Free T4 by Equilibrium Dialysis, T4	Red top tube. DO NOT use SST tube.	Refrigerate. Ship on ice packs.	2 Weeks		
Thyroid Profile 2 - Canine (IDEXX)	RO	Serum - 2 mL Includes: TSH, Free T4 by Equilibrium Dialysis, T3, T4, Thyroglobulin Autoantibodies.	Red top tube. DO NOT use SST tube.	Refrigerate up to 5 days. Freeze for longer storage. Ship on ice packs.	2 Weeks		
Thyroid Profile Diagnostic - Canine (Michigan)	RO	Serum - 2 mL 12 hour fasting sample. Avoid hemolysis and lipemia. Includes: T4, T3, FT4, TSH, TgAA, T3AA, T4AA.	Red top tube. DO NOT use SST tube.	Freeze. Ship on ice packs. Sample must arrive frozen. Include a completed "Agent for Shipment" form.	2 Weeks		
Thyroid Profile Premium - Canine (Michigan)	RO	Serum - 2 mL 12 hour fasting sample. Avoid hemolysis and lipemia. Includes T4, T3, TSH, TgAA, T3AA, T4AA, FT4 by Equilibrium Dialysis.	Red top tube. DO NOT use SST tube.	Freeze. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Thyroid Registry - Canine		(see Thyroid OFA Registry - Canine (IDEXX))					
Thyroid Stimulating Hormone		(see Canine TSH)					
Thyroxine		(see T4)					
Tick Panel - Serology and PCR		(see Tick Panel Canine Comprehensive (Vector Borne))					



Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Tick Panel Canine Comprehensive (Vector Borne)	RO	EDTA whole blood and serum - 2 mL for each sample Includes: <i>B. canis</i> , <i>B. gibsoni</i> , <i>E. canis</i> , <i>R. rickettsii</i> , <i>B. henselae</i> , <i>B. vinsoni</i> , <i>B. koehlerae</i> (by IFA), plus Snap 4DX for Lyme, <i>Anaplasma</i> , <i>Ehrlichia</i> and Heartworm paired with PCR testing to detect presence of <i>Babesia</i> , <i>Bartonella</i> , <i>Anaplasma</i> , <i>Ehrlichia</i> , <i>Rickettsia</i> , Hemotropic <i>Mycoplasma</i> organisms.	Purple and red top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Tick Panel PCR (Vector Borne) Canine, Feline	RO	EDTA whole blood and serum - 2 mL Send serum for hold, if available. Includes: <i>Babesia</i> , <i>Bartonella</i> , <i>Anaplasma</i> , <i>Ehrlichia</i> , <i>Rickettsia</i> , Hemotropic <i>Mycoplasma</i> .	Purple and red top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Tick Panel Serology (Vector Borne) Canine	RO	Serum - 2 mL Includes: <i>B. canis</i> , <i>B. gibsoni</i> , <i>E. canis</i> , <i>R. rickettsii</i> , <i>B. henselae</i> , <i>B. vinsoni</i> , <i>B. koehlerae</i> (by IFA), plus Snap 4DX for Lyme, <i>Anaplasma</i> , <i>Ehrlichia</i> , Heartworm.	Red top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Tick Transmitted Disease Panel (Canine) IDEXX SNAP 4Dx Plus Test	ELISAI	Serum, plasma or anticoagulated whole blood (e.g. EDTA, heparin) - 0.2 mL Includes: <i>Borrelia burgdorferi</i> , <i>Ehrlichia canis</i> , <i>Anaplasma phagocytophilum</i> , <i>Dirofilaria immitis</i> .	Red, green or purple top tube	Refrigerate. Ship on ice packs. Serum or plasma can be frozen.	1 Day		
Tick Transmitted Disease Panel (Equine) IDEXX SNAP 4Dx Plus Test	ELISAI	Serum, EDTA whole blood or plasma - 1 mL Includes: antibodies to <i>Borrelia burgdorferi</i> and <i>Anaplasma phagocytophilum</i>	Red or purple top tube	Refrigerate. Ship on ice packs. Serum or plasma can be frozen.	1 Day		
Tick/Vector Comprehensive RealPCR Panel (IDEXX) Canine	RO	EDTA whole blood - 2 mL Tick in sterile container is also acceptable. Collect sample prior to antibiotic administration. Includes: <i>Babesia</i> spp., <i>Bartonella</i> spp., Canine Hemotropic <i>Mycoplasma</i> , <i>Ehrlichia</i> spp., Hepatozoon spp., <i>Leishmania</i> spp., <i>Neorickettsia risticii</i> , Rocky Mountain Spotted Fever.	Purple top tube	Refrigerate. Ship on ice packs.	1 Week		
Tin		(see Mineral Panel #4)					



Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
TLI		(see Trypsin-Like Immunoreactivity (TLI) - Feline (IDEXX))					
TLI		(see Trypsin-Like Immunoreactivity (TLI) - Canine (IDEXX))					
Total Protein		(see Single Chemistry)					
Total Protein/Albumin/Globulin - Fluid (Chemistry Panel)	CA	Fluid - 0.5 mL	Red top tube	Refrigerate. Ship on ice packs.	1 Day		
Total Protein/Albumin/Globulin - Serum (Chemistry Panel)	CA	Serum - 0.5 mL	Red top tube	Refrigerate. Ship on ice packs.	1 Day		
Toxoplasma ELISA IgG, IgM - Canine, Feline (Colorado)	RO	Serum, CSF, or aqueous humor - 0.5 mL	Red top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Toxoplasma gondii PCR (Colorado) Most Species	RO	EDTA whole blood, TTW or BAL - 1 mL Aqueous humor - 150 uL, CSF - 0.5 mL, fresh tissue or formalin fixed, paraffin embedded tissue are also acceptable.	Purple or red top tube or leak proof container	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
Toxoplasma gondii RealPCR (IDEXX) Canine, Feline	RO	Feces - 5 grams, EDTA whole blood - 2 mL or CSF - 0.5 mL Tissue aspirates (on swab preferred), fresh tissue, or formalin fixed, paraffin embedded tissue are also acceptable. Collect specimen prior to antibiotic administration.	Purple top tube or sterile screw top container	Refrigerate up to 10 days. Fresh tissue refrigerate up to 24 hours, freeze for longer storage. Ship on ice packs.	1 Week		
Toxoplasma IFA IgG Only - Canine, Feline (IDEXX)	RO	Serum - 1 mL	Red top tube	Refrigerate. Ship on ice packs.	1 Week		
Toxoplasma IFA IgG, IgM - Canine, Feline (IDEXX)	RO	Serum - 1 mL	Red top tube	Refrigerate. Ship on ice packs.	1 Week		
Toxoplasma IFA IgM Only - Canine, Feline (IDEXX)	RO	Serum - 1 mL	Red top tube	Refrigerate. Ship on ice packs.	1 Week		
Transmissible Spongiform Encephalopathy - IHC with interpretation - (TSE - CWD, Scrapie)	IMIHC	Formalin-fixed tissues or Formic acid treated formalin-fixed tissues in paraffin block.	Leak proof container		1 - 2 Weeks		
Transmissible Spongiform Encephalopathy (TSE BIORAD ELISA)	TSEBIORAD	Fresh or frozen obex, lymph node or brain Contact PDS Lab for appropriate sample by species.	Leak proof container	Refrigerate. Ship on ice packs.	1 - 2 Weeks		
Triglycerides		(see Single Chemistry)					



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Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Triiodothyronine		(see T3)					
Tritrichomonas foetus PCR	PCRREALTIME	Preputial wash/scrapings (In Pouch™ medium) Record how samples have been treated (room temperature or incubated).	In Pouch™ TF medium	Incubate in Pouch™ TF at 35°C for 48 hours or leave at room temperature and keep warm during shipment.	3 - 5 Days		
Tritrichomonas foetus Pooled PCR 5:1 Pooling	PCRREALTIME	Individual In Pouch™ medium	In Pouch™ TF medium	Incubate in Pouch™ TF at 35°C for 48 hours or leave at room temperature and keep warm during shipment.	3 - 5 Days		
Troponin		(see Cardiac Troponin (IDEXX))					
Trypsin-Like Immunoreactivity (TLI) - Canine (IDEXX)	RO	Serum - 1 mL 12 hour fasting sample. Avoid hemolysis.	Red top tube. DO NOT use SST tube.	Refrigerate up to 7 days. Freeze up to 6 months. Ship on ice packs.	1 Week		
Trypsin-Like Immunoreactivity (TLI) - Feline (GI Lab)	RO	Serum - 0.5 mL 12 hour fasting sample. Avoid hemolysis.	Red top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		
TSE		(see Transmissible Spongiform Encephalopathy - IHC without interpretation - (TSE - CWD, Scrapie))					
TSH		(see Canine TSH)					
Urea		(see Single Chemistry)					
Ureaplasma diversum PCR	PCRREALTIME	Placenta or Feces	Leak proof container	Refrigerate. Ship on ice packs.	3 - 5 Days		
Ureaplasma sp. PCR	PCRCONV	Placenta or Feces	Leak proof container	Refrigerate. Ship on ice packs.	3 - 5 Days		
Uric Acid		(see Single Chemistry)					
Urinalysis - Complete	UR	Urine - 3 mL If suspicious cells are noted the PDS Pathologist will recommend an add-on urine cytology at an additional charge of \$43.50 - a new submission form is required to add-on tests.	Red top tube	Refrigerate. Ship on ice packs.	1 Day		
Urinalysis and Urine Cytology	UR	Urine - 3 mL Includes: Urinalysis - Complete, Urine Cytology.	Red top tube	Refrigerate. Ship on ice packs.	1 Day		
Urine BRAF Mutation Detection Assay (Sentinel Biomedical) Canine, Feline	RO	Urine - 30 - 40 mL	Sterile, leak proof container	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		



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Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Urine Cortisol/Creatinine Ratio	CA	Urine - 1 mL	Red top tube	Refrigerate. Ship on ice packs.	Same day 2 PM cut off		
Urine Cytology		(see Urinalysis and Urine Cytology)					
Urine Electrolyte Panel - Large Animal	CA	Urine - 1 mL Includes: Na, K, Cl, Ca, Pi, Mg, Urea, Creat, measured osmolality.	Red top tube	Refrigerate. Ship on ice packs.	1 Day		
Urine Electrolyte Panel - Small Animal	CA	Urine - 1 mL Includes: pH, Na, K, Cl, Urea, Creat, measured osmolality.	Red top tube	Refrigerate. Ship on ice packs.	1 Day		
Urine GGT/Creatinine Ratio Canine, Equine	CA	Urine - 1 mL	Red top tube	Refrigerate. Ship on ice packs.	1 Day		
Urine Osmolality (Measured)	CA	Urine - 0.5 mL	Red top tube	Refrigerate. Ship on ice packs.	1 Day		
Urine Protein Creatinine Ratio/Urinalysis Combo	UR_CA UR	Urine - 3 mL	Red top tube	Refrigerate. Ship on ice packs.	1 Day		
Urine Protein/Creatinine Ratio	CA	Urine - 1 mL	Red top tube	Refrigerate. Ship on ice packs.	1 Day		
Urine Sediment only		(see Urinalysis and Urine Cytology)					
Urine Sodium, Potassium, Chloride	CA	Urine - 1 mL	Red top tube	Refrigerate. Ship on ice packs.	1 Day		
Vaccine Antibody Titer		(see Canine Vaccine Panel IFA (IDEXX))					
Vanadium		(see Mineral Panel #4)					
Vibrio		(see Campylobacter fetus ssp. venerealis/Tritrichomonas foetus PCR)					
Virology - Necropsy Add-On		Tissues from PDS Necropsy cases. FAT frozen section or virus isolation. FAT is per slide for 2 antigens. One slide is usually up to 4 pieces of tissue.	Leak proof container	Refrigerate. Ship on ice packs.	2 - 3 Days		
Virus Isolation	VIR	Please contact the PDS Lab for instructions for specific viruses.	Leak proof container	Refrigerate. Ship on ice packs.	1 - 3 Weeks		
Vitamin A (Blood)	HPLC	Heparinized plasma or serum - 1 mL for each vitamin; whole blood - 5 mL for each vitamin Extraction and HPLC.	Red or green top tube	Protect samples from light. Refrigerate. Ship on ice packs.	2 - 5 Days		
Vitamin A (Liver)	HPLC	Liver (fresh or frozen) - 5 grams Extraction and HPLC.	Leak proof container	Protect samples from light. Refrigerate. Ship on ice packs.	2 - 5 Days		



Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Vitamin A and E	HPLC	Heparinized plasma or serum - 1 mL for each vitamin; whole blood - 5 mL for each vitamin; liver (fresh or frozen) - 5 grams for each vitamin Extraction and HPLC.	Red or green top tube	Protect samples from light. Refrigerate. Ship on ice packs.	2 - 5 Days		
Vitamin B12		(see Cobalamin (B12) (IDEXX))					
Vitamin D (Blood) 25-OH-D3 (25-Hydroxyvitamin D3)	HPLC	Serum - 1 mL serum Extraction and HPLC.	Red top tube	Protect samples from light. Refrigerate. Ship on ice packs.	2 - 5 Days		
Vitamin D Profile (Michigan) Most Species	RO	Serum or heparinized plasma - 2 mL 12 hour fasting sample. Avoid hemolysis. Protect from light. Includes: PTH, Ionized Calcium, 25-hydroxyvitamin D.	Red or green top tube	Centrifuge sample within 1 hour of collection. Remove sample and freeze ASAP. Ship frozen on ice packs. Sample must arrive below 60°F. Include a completed "Agent for Shipment" form.	2 Weeks		
Vitamin E (Blood)	HPLC	Heparinized plasma or serum - 1 mL for each vitamin; whole blood - 5 mL for each vitamin Extraction and HPLC.	Red or green top tube	Protect samples from light. Refrigerate. Ship on ice packs.	2 - 5 Days		
Vitamin E (Liver)	HPLC	Liver (fresh or frozen) - 5 grams Extraction and HPLC.	Leak proof container	Protect samples from light. Refrigerate. Ship on ice packs.	2 - 5 Days		
Von Willebrand Factor ELISA (Cornell)	RO	Citrated plasma - 1 mL Fasting sample recommended. Citrated collection tubes available, contact PDS Lab.	Blue top tube (citrate). Sample/anticoagulant ratio is critical - check tube label.	Centrifuge, transfer plasma into a plain plastic tube or plastic syringe without needle attached - DO NOT use red top tube. Ship frozen, sample must arrive frozen. Include a completed "Agent for Shipment" form.	2 Weeks		
West Nile Virus ELISA	ELISA	Serum - 0.2 mL Pricing for multiple samples - \$22.20 per sample.	Red top tube	Refrigerate. Ship on ice packs.	2 - 5 Days		
West Nile Virus PCR	PCRREALTIME	Horses - brain or spinal cord; Avian - swabs, tissues In horses with clinical disease, the IgM Capture ELISA is recommended rather than PCR on tissues, if serum is available.	Leak proof container, red top tube or swab		3 - 5 Days		
Zinc		(see Mineral Panel #1)					



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Test Name	Method	Sample / Comments	Container	Handling / Shipping	Schedule Test / TAT	Supported Price (SK only)	List Price
Zonisamide (Cornell)	RO	Serum, lithium heparin or EDTA plasma - 1 mL Avoid hemolysis.	Red, green or purple top tube	Refrigerate. Ship on ice packs. Include a completed "Agent for Shipment" form.	2 Weeks		