

# ViTALS Tests and Fees

Fees Effective: November 1st, 2023

Virginia Tech Animal Laboratory Services  
245 Duck Pond Dr. | Blacksburg, VA 24061 | 540-231-4320

Service Section	Test Name	Test Description	Sample Requirements	Shipping Requirements	Fee
Blood Bank	Crossmatch - Gel	Provide purple top whole blood from the donor, ensure tubes are well-labeled as to donor and recipient.	PURPLE TOP EDTA	Overnight with ice packs	\$ 57.00
Blood Bank	DEA 1.1 Blood Type		PURPLE TOP EDTA	Overnight with ice packs	\$ 57.00
Blood Bank	Feline Blood Type		PURPLE TOP EDTA	Overnight with ice packs	\$ 57.00
Blood Gas	Ionized Calcium	Ionized Calcium	GREEN TOP LI HEP (whole blood, on ice, within 4 hours) -OR- GREEN TOP LI HEP (plasma, on ice, overnight) -OR- *RED TOP NO ADDITIVE (serum, on ice, overnight) *Preferred mail-in sample	Maintain anaerobic conditions, do not expose to air GT (whole blood): Deliver on ice packs within 4 hours of collection, courier or hand delivery only GT (plasma): Centrifuge & separate plasma within 4 hours, maintain at 4°C, ship overnight with ice packs RT (serum): Centrifuge & separate serum within 1 hour, maintain at 4°C, ship overnight with ice packs	\$ 17.00
Body Fluid Chemistry	Body Fluid TP/ALB/GLOB	Body Fluid Albumin, Body Fluid Globulin, Body Fluid Total Protein	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 30.00
Body Fluid Chemistry	Body Fluid ALKP	Body Fluid ALKP	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 17.00
Body Fluid Chemistry	Body Fluid Amylase	Body Fluid Amylase	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 19.00
Body Fluid Chemistry	Body Fluid Calcium	Body Fluid Calcium	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 17.00
Body Fluid Chemistry	Body Fluid Chloride	Body Fluid Chloride	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 17.00
Body Fluid Chemistry	Body Fluid Cholesterol	Body Fluid Cholesterol	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 17.00
Body Fluid Chemistry	Body Fluid Creatinine	Body Fluid Creatinine	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 17.00
Body Fluid Chemistry	Body Fluid Glucose	Body Fluid Glucose	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 17.00
Body Fluid Chemistry	Body Fluid Lipase	Body Fluid Lipase	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 19.00
Body Fluid Chemistry	Body Fluid Magnesium	Body Fluid Magnesium	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 17.00
Body Fluid Chemistry	Body Fluid Phosphorous	Body Fluid Phosphorous	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 17.00
Body Fluid Chemistry	Body Fluid Potassium	Body Fluid Potassium	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 17.00
Body Fluid Chemistry	Body Fluid Sodium	Body Fluid Sodium	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 17.00
Body Fluid Chemistry	Body Fluid Total Bilirubin	Body Fluid Total Bilirubin, Body Fluid Direct Bilirubin, Body Fluid Indirect Bilirubin	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 17.00
Body Fluid Chemistry	Body Fluid Triglyceride	Body Fluid Triglyceride	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 19.00
Chemistry	ALB	Albumin	GREEN TOP LI HEP or Red Top tube: centrifuge the sample & transfer the supernatant (plasma or serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 17.00
Chemistry	ALKP	ALKP	GREEN TOP LI HEP or Red Top tube: centrifuge the sample & transfer the supernatant (plasma or serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 17.00
Chemistry	ALT	ALT (GPT)	GREEN TOP LI HEP or Red Top tube: centrifuge the sample & transfer the supernatant (plasma or serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 17.00
Chemistry	AMMONIA	Ammonia	Purple Top EDTA tube: Centrifuge the sample as soon as possible. Transfer plasma to a sterile container (red top or plastic tube) and maintain on ice. Up to 2 hours delay between sample collection and sample analysis is permissible.	Courier or hand deliver only, on ice.	\$ 48.00
Chemistry	AMYL	Amylase	GREEN TOP LI HEP or Red Top tube: centrifuge the sample & transfer the supernatant (plasma or serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 19.00

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Chemistry	PANC	Amylase, Lipase	GREEN TOP LI HEP or Red Top tube: centrifuge the sample & transfer the supernatant (plasma or serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 31.00
Chemistry	AST	AST (GOT)	GREEN TOP LI HEP or Red Top tube: centrifuge the sample & transfer the supernatant (plasma or serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 17.00
Chemistry	PreBA	Bile Acids (Fasting)	GREEN TOP LI HEP or Red Top tube: centrifuge the sample & transfer the supernatant (plasma or serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 41.00
Chemistry	PostBA	Bile Acids (Post)	GREEN TOP LI HEP or Red Top tube: centrifuge the sample & transfer the supernatant (plasma or serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 41.00
Chemistry	CA	Calcium	GREEN TOP LI HEP or Red Top tube: centrifuge the sample & transfer the supernatant (plasma or serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 17.00
Chemistry	CL	Chloride	GREEN TOP LI HEP or Red Top tube: centrifuge the sample & transfer the supernatant (plasma or serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 17.00
Chemistry	CHOL	Cholesterol	GREEN TOP LI HEP or Red Top tube: centrifuge the sample & transfer the supernatant (plasma or serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 17.00
Chemistry	CK	CK	GREEN TOP LI HEP or Red Top tube: centrifuge the sample & transfer the supernatant (plasma or serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 19.00
Chemistry	CO2	CO2	GREEN TOP LI HEP or Red Top tube: centrifuge the sample & transfer the supernatant (plasma or serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 15.00
Chemistry	CREAT	Creatinine	GREEN TOP LI HEP or Red Top tube: centrifuge the sample & transfer the supernatant (plasma or serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 17.00
Chemistry	D3HB	D3HB	GREEN TOP LI HEP or Red Top tube: centrifuge the sample & transfer the supernatant (plasma or serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 20.00
Chemistry	GGT	GGT	Green Top or Red Top tube: centrifuge the sample & transfer the supernatant (plasma or serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 19.00
Chemistry	GLU	Glucose	GREEN TOP LI HEP or Red Top tube: centrifuge the sample & transfer the supernatant (plasma or serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 17.00

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Chemistry	FISH PROFILE	Glucose, Creatinine, Phosphorus, Calcium, Magnesium, Total Protein, Albumin, AST (GOT), ALKP, Total Bilirubin, Direct Bilirubin, Indirect Bilirubin, Cholesterol, Sodium, Potassium, Chloride	GREEN TOP LI HEP or Red Top tube: centrifuge the sample & transfer the supernatant (plasma or serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 58.00
Chemistry	HYPERTHY Panel	Glucose, Urea Nitrogen, Creatinine, ALT (GPT), ALKP	GREEN TOP LI HEP or Red Top tube: centrifuge the sample & transfer the supernatant (plasma or serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 46.00
Chemistry	RENAL Panel	Glucose, Urea Nitrogen, Creatinine, Phosphorus, Calcium, Albumin, Cholesterol, Sodium, Potassium, Chloride, CO2, Anion Gap	GREEN TOP LI HEP or Red Top tube: centrifuge the sample & transfer the supernatant (plasma or serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 64.00
Chemistry	Large Animal Profile	Glucose, Urea Nitrogen, Creatinine, Phosphorus, Calcium, Magnesium, Total Protein, Albumin, Globulin, AST (GOT), GGT, Total Bilirubin, Direct Bilirubin, Indirect Bilirubin, CK, Sodium, Potassium, Chloride, CO2, Anion Gap	GREEN TOP LI HEP or Red Top tube: centrifuge the sample & transfer the supernatant (plasma or serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 80.00
Chemistry	Small Animal Profile	Glucose, Urea Nitrogen, Creatinine, Phosphorus, Calcium, Total Protein, Albumin, Globulin, ALT (GPT), ALKP, GGT, Total Bilirubin, CK, Cholesterol, Triglycerides, Sodium, Potassium, Chloride, CO2, Anion Gap	GREEN TOP LI HEP or Red Top tube: centrifuge the sample & transfer the supernatant (plasma or serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 80.00
Chemistry	CHEM 8 AU480	Glucose, Urea Nitrogen, Creatinine, Sodium, Potassium, Chloride, CO2, Anion Gap	GREEN TOP LI HEP or Red Top tube: centrifuge the sample & transfer the supernatant (plasma or serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 27.00
Chemistry	PREOP Panel	Glucose, Urea Nitrogen, Creatinine, Total Protein, Albumin, Globulin, ALT (GPT), ALKP, Sodium, Potassium, Chloride	GREEN TOP LI HEP or Red Top tube: centrifuge the sample & transfer the supernatant (plasma or serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 60.00
Chemistry	MOUSE PROFILE	Glucose, Urea Nitrogen, Creatinine, Total Protein, ALT (GPT)	GREEN TOP LI HEP or Red Top tube: centrifuge the sample & transfer the supernatant (plasma or serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 40.00
Chemistry	BOVINE PROFILE	Glucose, Urea Nitrogen, Phosphorus, Calcium, Magnesium, CK, Sodium, Potassium, Chloride, CO2, D3HB	GREEN TOP LI HEP or Red Top tube: centrifuge the sample & transfer the supernatant (plasma or serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 49.00
Chemistry	LIVER	Glucose, Urea Nitrogen, Total Protein, Albumin, Globulin, ALT (GPT), ALKP, GGT, Total Bilirubin, Cholesterol	GREEN TOP LI HEP or Red Top tube: centrifuge the sample & transfer the supernatant (plasma or serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 58.00
Chemistry	LIPASE	Lipase	GREEN TOP LI HEP or Red Top tube: centrifuge the sample & transfer the supernatant (plasma or serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 19.00

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Chemistry	MG	Magnesium	GREEN TOP LI HEP or Red Top tube: centrifuge the sample & transfer the supernatant (plasma or serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 17.00
Chemistry	PHOS	Phosphorus	GREEN TOP LI HEP or Red Top tube: centrifuge the sample & transfer the supernatant (plasma or serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 17.00
Chemistry	MIN	Phosphorus, Calcium, Magnesium	GREEN TOP LI HEP or Red Top tube: centrifuge the sample & transfer the supernatant (plasma or serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 36.00
Chemistry	Large Animal Mini Profile	Phosphorus, Calcium, Magnesium, Total Protein, Albumin, Globulin, AST (GOT), GGT, Total Bilirubin, Direct Bilirubin, Indirect Bilirubin	GREEN TOP LI HEP or Red Top tube: centrifuge the sample & transfer the supernatant (plasma or serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 52.00
Chemistry	CHICKEN PROFILE	Phosphorus, Calcium, Magnesium, Total Protein, ALT (GPT), AST (GOT), Total Bilirubin, Direct Bilirubin, Indirect Bilirubin, CK, Sodium, Potassium, Chloride	GREEN TOP LI HEP or Red Top tube: centrifuge the sample & transfer the supernatant (plasma or serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 57.00
Chemistry	Small Animal Mini Profile	Phosphorus, Calcium, Total Protein, Albumin, Globulin, ALT (GPT), AST (GOT), ALKP, GGT, Total Bilirubin, Direct Bilirubin, Indirect Bilirubin, Cholesterol	GREEN TOP LI HEP or Red Top tube: centrifuge the sample & transfer the supernatant (plasma or serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 51.00
Chemistry	K	Potassium	GREEN TOP LI HEP or Red Top tube: centrifuge the sample & transfer the supernatant (plasma or serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 17.00
Chemistry	NA	Sodium	GREEN TOP LI HEP or Red Top tube: centrifuge the sample & transfer the supernatant (plasma or serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 17.00
Chemistry	LYTES	Sodium, Potassium, Chloride, CO2, Anion Gap	GREEN TOP LI HEP or Red Top tube: centrifuge the sample & transfer the supernatant (plasma or serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 37.00
Chemistry	TBIL	Total Bilirubin, Direct Bilirubin, Indirect Bilirubin	GREEN TOP LI HEP or Red Top tube: centrifuge the sample & transfer the supernatant (plasma or serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 17.00
Chemistry	TP	Total Protein	GREEN TOP LI HEP or Red Top tube: centrifuge the sample & transfer the supernatant (plasma or serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 17.00
Chemistry	ALB/GLOB/TP	Total Protein, Albumin, Globulin	GREEN TOP LI HEP or Red Top tube: centrifuge the sample & transfer the supernatant (plasma or serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 30.00

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Chemistry	TRIG	Triglycerides	GREEN TOP LI HEP or Red Top tube: centrifuge the sample & transfer the supernatant (plasma or serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 19.00
Chemistry	BUN	Urea Nitrogen	GREEN TOP LI HEP or Red Top tube: centrifuge the sample & transfer the supernatant (plasma or serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 17.00
Chemistry	NSAID Panel	Urea Nitrogen, Creatinine, Total Protein, ALT (GPT), ALKP, Total Bilirubin	GREEN TOP LI HEP or Red Top tube: centrifuge the sample & transfer the supernatant (plasma or serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 49.00
Coagulation	PT	PT	BLUE TOP Sodium citrate: Sample must meet draw level indicated on the blood tube. Ensure sample does not have visible clots. Whole blood citrated samples must be analyzed within 4 hours of sampling. If testing delay of more than 4 hours is expected, remove plasma after centrifugation to a plastic tube (not a red top clot activator tube) and refrigerate for testing within 24 hours, or for longer delays, freeze plasma.	Courier or overnight with ice packs	\$ 57.00
Coagulation	PTT	PTT	BLUE TOP Sodium citrate: Sample must meet draw level indicated on the blood tube. Ensure sample does not have visible clots. Whole blood citrated samples must be analyzed within 4 hours of sampling. If testing delay of more than 4 hours is expected, remove plasma after centrifugation to a plastic tube (not a red top clot activator tube) and refrigerate for testing within 24 hours, or for longer delays, freeze plasma.	Courier or overnight with ice packs	\$ 57.00
Cytology	Fluid without counts	Examples: Bronchoalveolar lavage, tracheal wash, urine, bile, seminal/prostatic fluid, fluid from mass, washes/flushes, pus or abscess	RED TOP or PURPLE TOP EDTA +/- smear slides of the fluid	Slides in protective slide holder, otherwise, overnight with ice packs. DO NOT SHIP WITH FORMALIN FIXED SAMPLES	\$ 66.00
Cytology	Fluid with counts	Examples: Pleural effusion, thoracic fluid, peritoneal fluid, abdominal cavity fluid, pericardial effusion/fluid	PURPLE TOP EDTA +/- smear slides of the fluid	Slides in protective slide holder, otherwise, overnight with ice packs. DO NOT SHIP WITH FORMALIN FIXED SAMPLES	\$ 99.00
Cytology	Cerebrospinal Fluid (CSF)	Includes nucleated & red cell counts, protein, & cytologic evaluation	RED TOP NO ADDITIVE +/- smear slides	Slides in protective slide holder, otherwise, overnight with ice packs. DO NOT SHIP WITH FORMALIN FIXED SAMPLES	\$ 99.00
Cytology	Bone Marrow	must be accompanied by a CBC that has been performed within 24hours (CBC may be performed at additional charge)	Slides + PURPLE TOP EDTA or PURPLE TOP EDTA	Slides in protective slide holder, otherwise, overnight with ice packs. DO NOT SHIP WITH FORMALIN FIXED SAMPLES.	\$ 99.00
Cytology	Path Review	Pathologist reviews the blood smear.	Unstained slides +/- PURPLE TOP EDTA Whole blood. Include recent (<48 hours) CBC or PURPLE TOP EDTA for CBC (additional charge applies)	Slides in protective slide holder, otherwise, overnight with ice packs. DO NOT SHIP WITH FORMALIN FIXED SAMPLES.	\$ 44.00
Cytology	Buffy Coat	smear slide made from the layer separating the plasma from the packed cells	PURPLE TOP EDTA	Overnight with ice packs. DO NOT SHIP WITH FORMALIN FIXED SAMPLES	\$ 66.00
Cytology	Basic Cytology- Smears		Smear Slides labeled with patient name and site	Slides in protective slide holder. DO NOT SHIP WITH FORMALIN FIXED SAMPLES.	\$ 66.00

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Cytology	Lymph node, single site		Slides, labeled with patient name and site	Slides in protective slide holder. DO NOT SHIP WITH FORMALIN FIXED SAMPLES.	\$ 66.00
Cytology	Lymph node, multiple sites		Slides, labeled with patient name and site(s)	Slides in protective slide holder. DO NOT SHIP WITH FORMALIN FIXED SAMPLES.	\$ 88.00
Hematology	Hemogram Equine	Analyzer blood counts only- No blood smear review/manual cell count	PURPLE TOP EDTA	Overnight with ice packs	\$ 33.00
Hematology	Hemogram Large Animal	Analyzer blood counts only- No blood smear review/manual cell count	PURPLE TOP EDTA	Overnight with ice packs	\$ 33.00
Hematology	Hemogram Small Animal	Analyzer blood counts only- No blood smear review/manual cell count	PURPLE TOP EDTA	Overnight with ice packs	\$ 33.00
Hematology	Reticulocyte Count	Automated Reticulocyte Count, Reticulocyte Absolute	PURPLE TOP EDTA	Overnight with ice packs	\$ 19.00
Hematology	Packed Cell Volume	Packed Cell Volume	PURPLE TOP EDTA	Overnight with ice packs	\$ 15.00
Hematology	PCV/TP	Packed Cell Volume, Plasma Protein, Plasma Appearance	PURPLE TOP EDTA	Overnight with ice packs	\$ 19.00
Hematology	PCV/TP/FIB	Packed Cell Volume, Plasma Protein, Fibrinogen, Plasma Appearance	PURPLE TOP EDTA	Overnight with ice packs	\$ 25.00
Hematology	Plasma Protein	Plasma Protein	PURPLE TOP EDTA	Overnight with ice packs	\$ 15.00
Hematology	Platelet Count	Platelets, Slide Platelet Estimate, Platelets Clumped, Platelet Morphology	PURPLE TOP EDTA	Overnight with ice packs	\$ 40.00
Hematology	CBC Equine	Submit smear slides made from EDTA--WB at time of draw	PURPLE TOP EDTA + 2 smear slides	Overnight with ice packs	\$ 75.00
Hematology	CBC Large Animal	Submit smear slides made from EDTA--WB at time of draw	PURPLE TOP EDTA + 2 smear slides	Overnight with ice packs	\$ 75.00
Hematology	CBC Small Animal	Submit smear slides made from EDTA--WB at time of draw	PURPLE TOP EDTA + 2 smear slides	Overnight with ice packs	\$ 72.00
Immunology	Clostridium Perfringens	Enzyme Immunoassay for enterotoxin detection	Feces in a leak-proof specimen container	Submit within 2 hours of collection	\$ 66.00
Immunology	Clostridium Difficile	Enzyme immunoassay for the detection of toxins A & B produced by toxigenic strains of <i>C. difficile</i>	Feces in a leak-proof specimen container	Submit within 2 hours of collection	\$ 66.00
Immunology	FELV,FIV Combo	SNAP Test	Purple, GREEN TOP LI HEP or red top tube	Overnight with ice packs	\$ 52.00
Immunology	SNAP 4Dx	SNAP Test	Purple, GREEN TOP LI HEP or red top tube	Overnight with ice packs	\$ 60.00
Immunology	Camelid IgG (RID)		RED TOP NO ADDITIVE	Separate serum within 2 hours of collection	\$ 81.00
Microbiology	Acid Fast Stain		Fluids & tissues in sterile container or red top tube preferred; Culture swabs/cultures also acceptable.	Overnight or same day delivery. Samples should be kept cold and shipped on ice. Tissues should be kept moist.	\$ 15.00
Microbiology	Anaerobic Culture		Anaerobe swab, if a swab is used. For fluids, submit in a container with all air removed, such as a syringe (remove needle). For tissues, as large a piece as possible in a sterile container. Anaerobes die quickly in the presence of air.	Overnight or same day delivery. Samples should be kept cold and shipped on ice. Tissues should be kept moist.	\$ 43.00
Microbiology	Blood Culture		Standard blood collection bottles only	Ship/store at room temperature. Overnight or same day delivery.	\$ 109.00
Microbiology	Campylobacter Culture		Fresh Feces in sterile container; Cary Blair transport media not recommended for culture	Overnight or same day delivery. Sample should be kept cold and shipped on ice.	\$ 36.00
Microbiology	Small Animal Fecal Screen Culture	Culturing bacteria from feces to identify the presence of normal aerobic flora as well as to identify select pathogens, such as <i>Salmonella ssp</i> (from all animal species) and <i>Campylobacter ssp</i> (canine and feline cases or upon request)	Fresh Feces in sterile, leak-proof container	Overnight or same day delivery. Sample should be kept cold and shipped on ice.	\$ 55.00

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Microbiology	Large Animal Fecal Screen Culture	Culturing bacteria from feces to identify the presence of normal aerobic flora as well as to identify select pathogens, such as <i>Salmonella</i> spp (from all animal species) and <i>Campylobacter</i> spp (canine and feline cases or upon request)	Fresh Feces in sterile, leak-proof container	Overnight or same day delivery. Samples should be kept cold and shipped on ice.	\$ 47.00
Microbiology	Fungal Culture (Mycology)		DTM samples - Hair, nails, skin scrapings. All other fungal samples - fluids & tissues in sterile containers	Hair, nails, skin scrapings - Ship/store at room temperature. All other sources (tissue/fluids) should be kept cold and shipped on ice.	\$ 43.00
Microbiology	Gram Stain		Fluids & tissues in sterile container or red top tube preferred; Culture swabs/culturettes also acceptable.	Overnight or same day delivery. Samples should be kept cold and shipped on ice. Tissues should be kept moist.	\$ 15.00
Microbiology	MALDI ID		Isolated organism, no older than 48 hours on nonselective culture media	Overnight or same day delivery. Store/ship at room temperature only.	\$ 33.00
Microbiology	MRSA/MRSP Culture Screen	Only screens for Methicillin-resistant <i>Staphylococcus</i> spp.	Fluids & tissues in sterile container or red top tube preferred; Culture swabs/culturettes also acceptable.	Overnight or same day delivery. Samples should be kept cold and shipped on ice. Tissues should be kept moist.	\$ 33.00
Microbiology	Routine (Aerobic) Culture	Does not include antimicrobial susceptibility evaluation.	Fluids & tissues in sterile container or red top tube preferred; Culture swabs/culturettes also acceptable.	Overnight or same day delivery. Samples should be kept cold and shipped on ice. Tissues should be kept moist.	\$ 36.00
Microbiology	Routine (Aerobic) Culture + Sensitivity		Fluids & tissues in sterile container or red top tube preferred; Culture swabs/culturettes also acceptable.	Overnight or same day delivery. Samples should be kept cold and shipped on ice. Tissues should be kept moist.	\$ 61.00
Microbiology	Mycoplasma Culture	Acceptable specimen sources include necropsy tissue, respiratory samples, joint fluid, milk and urine. Contact lab if testing on other sample types is needed.	Fluids & tissues in sterile container or red top tube preferred; Culture swabs/culturettes also acceptable.	Overnight or same day delivery. Samples should be kept cold and shipped on ice. Tissues should be kept moist.	\$ 28.00
Microbiology	Strep Equi Screen Culture		Fluids & tissues in sterile container or red top tube preferred; Culture swabs/culturettes also acceptable.	Overnight or same day delivery. Samples should be kept cold and shipped on ice. Tissues should be kept moist.	\$ 30.00
Molecular Diagnostics	Borrelia burgdorferi qPCR		Ticks submerged in ≥70% ethanol (≥1/2 adult tick, ≥1 nymph, or ≥5 larvae)		\$ 64.00
Molecular Diagnostics	Canine Distemper Virus PCR		Formalin-fixed Paraffin Embedded tissue block. Will accept but not validated for: 0.5mL serum (red top tube) or EDTA plasma (purple top tube), conjunctival swabs (dry), urine- any method of collection (sterile specimen container or red top tube)	Freeze liquid samples; ship overnight with ice packs	\$ 64.00
Molecular Diagnostics	Equine Herpesvirus 1 PCR	Non-neuropathogenic and neuropathogenic EVH-1	Equine whole blood (purple top tube), nasal swabs (dry or in PBS - not in culture media)	Whole blood: Samples should be stored in the refrigerator up to 6 hours or in the freezer if more than 6 hours. Nasal swabs (dry or in PBS): Submit to MICRO. Store samples in the refrigerator up to 6 hours or in the freezer if more than 6 hours.	\$ 64.00
Molecular Diagnostics	Feline Coronavirus/FIP PCR		Formalin-fixed Paraffin Embedded tissue block. Will accept but not validated for: ascites fluid, 0.5mL (red top tube)		\$ 64.00
Molecular Diagnostics	Salmonella PCR		Preferred Matrices: greater than 1.0 mL or gram of fresh feces (preferable), feces in Cary Blair transport media DO NOT REFRIGERATE/FREEZE SAMPLE	If shipping, use Cary Blair transport media, do not use ice packs, ship overnight. If using courier, fresh preferred in sterile specimen container, do not use ice packs.	\$ 92.00
Molecular Diagnostics	Theileria Anaplasma Duplex qPCR	Bovine only. Detection of Theileria orientalis and Anaplasma marginale	EDTA WB (preferred), other anticoagulated blood specimens are acceptable		\$ 25.00

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Molecular Diagnostics	Theileria Strain Differentiation qPCR	Bovine only. Detect and differentiate between three strains of Theileria orientalis: Ikeda, Chitose, and Buffeli	EDTA WB (preferred), other anticoagulated blood specimens are acceptable Ticks submerged in ≥70% ethanol (≥1/2 adult tick, ≥1 nymph, or ≥5 larvae)		\$ 64.00
Molecular Diagnostics	Anaplasma phagocytophilum	Detection of Anaplasma phagocytophilum			\$ 64.00
Parasitology	Heartworm Antigen Test	<i>Dirofilaria</i> , dogs & cats	PURPLE TOP EDTA	Ship samples overnight with ice.	\$ 39.00
Parasitology	Knott's Test for Microfilariae	Microfilariae (heartworm)	PURPLE TOP EDTA	Ship samples overnight with ice.	\$ 21.00
Parasitology	McMaster Camelid	Quantitative test when egg counts low (camelids, adult cattle)	2-4g of feces	Place fecal sample in an unbreakable, leak-proof container. <b>Exception:</b> For quantitative egg counts, place sample in plastic bags with a sealable top; express air out before sealing bag. Ship samples overnight with ice; prevent direct contact between ice and fecal sample. NOTE: For multiple submissions/herd testing, please contact Dr. Zajac at 540.231.7017.	\$ 24.00
Parasitology	McMaster Standard	Quantitative test for small ruminants, horses, & cattle (cattle <2 years of age)	2-4g of feces in leak-proof container	Place fecal sample in an unbreakable, leak-proof container. <b>Exception:</b> For quantitative egg counts, place sample in plastic bags with a sealable top; express air out before sealing bag. Ship samples overnight with ice; prevent direct contact between ice and fecal sample. NOTE: For multiple submissions/herd testing, please contact Dr. Zajac at 540.231.7017.	\$ 24.00
Parasitology	Zinc Sulfate Flotation Test	Routine flotation for parasite screening in small animals	2-5g of feces in leak-proof container	Place fecal sample in an unbreakable, leak-proof container. Ship samples overnight with ice; prevent direct contact between ice and fecal sample.	\$ 30.00
Parasitology	Sedimentation	<b>Small Animal:</b> Fluke eggs <b>Large Animals:</b> Flukes	5-10g of feces in leak-proof container	Place fecal sample in an unbreakable, leak-proof container. Ship samples overnight with ice; prevent direct contact between ice and fecal sample. NOTE: For multiple submissions/herd testing, please contact Dr. Zajac at 540.231.7017.	\$ 21.00
Parasitology	Sheather's Sugar Float	<b>Small Animal:</b> Flotation, including tapeworms, Physaloptera <b>Large Animal:</b> Qualitative, Routine screening, <i>Eimeria macusaniensis</i> in camelids, <i>Cryptosporidium</i>	2-5g of feces in leak-proof container	Place fecal sample in an unbreakable, leak-proof container. Ship samples overnight with ice; prevent direct contact between ice and fecal sample. NOTE: For multiple submissions/herd testing, please contact Dr. Zajac at 540.231.7017.	\$ 30.00
Parasitology	Baermann Exam	<b>Small Animals:</b> Nematode larvae (e.g. <i>Strongyloides</i> , <i>Aleurostrongylus</i> ) *Requires 12-24 hours <b>Large Animals:</b> Nematode larvae (lungworms) *Requires 12-24 hrs	5-10g of feces in leak-proof container	Place fecal sample in an unbreakable, leak-proof container. Ship samples overnight with ice; prevent direct contact between ice and fecal sample. NOTE: For multiple submissions/herd testing, please contact Dr. Zajac at 540.231.7017.	\$ 20.00
Parasitology	Parasite Identification	<b>Small Animals:</b> ID of helminth & arthropod parasites (e.g. adult worms, ticks, mites) <b>Large Animals:</b> ID of helminth & arthropod parasites (e.g. adult worms, ticks, mites)	Submit parasite in leakproof container	Place sample in an unbreakable, leak-proof container. Arthropod(s) preserved in 70% Alcohol (preferred) and worms in 10% Formalin (preferred). Ship samples overnight with ice. NOTE: For multiple submissions/herd testing, please contact Dr. Zajac at 540.231.7017.	\$ 25.00
Parasitology	Giardia Antigen SNAP Test		5g of Feces in leak-proof container	Place fecal sample in an unbreakable, leak-proof container. Ship samples overnight with ice; prevent direct contact between ice and fecal sample.	\$ 36.00
Pathology	Necropsy	Comprehensive evaluation of organ systems- bacteriology, parasitology, histology included. Some ancillary testing available at additional costs (i.e. toxicology, PCR, etc.)- notify necropsy lab if desired. Pricing is based on weight.	Carcass- cooled to refrigeration temperatures, if possible. Rabies vaccination status must be provided. Indicate disposal preference on submission form.	Drop-off: call necropsy to coordinate at 231-4619. Mail: Refer to Necropsy Shipping Requirements document posted on the website, avoid freezing carcasses	Greater than 300 lbs- \$242. Less than 300 lbs.- \$115

# ViTALS Tests and Fees

Fees Effective: November 1st, 2023

Virginia Tech Animal Laboratory Services  
245 Duck Pond Dr. | Blacksburg, VA 24061 | 540-231-4320

Service Section	Test Name	Test Description	Sample Requirements	Shipping Requirements	Fee
Pathology	Histology- Field Necropsy	Histological evaluation of issue samples gathered from a field necropsy. Pricing is based on sites or tissue location.	Formalin-fixed tissues (1:10 tissue to formalin ratio recommended), leak-proof container (NO GLASS); see Field Necropsy Submission Guidelines	Overnight with absorbent material, ice packs recommended in summer months. Leaking samples may be assessed a HAZARD FEE.	1-3 sites- \$139, 4-9 sites- \$178, 10+ sites- \$214
Pathology	Histology	Histological evaluation of tissue samples. Pricing based on tissue sites or location of biopsy or excision.	Formalin-fixed tissues (1:10 tissue to formalin ratio recommended), leak-proof container (NO GLASS)	Overnight with absorbent material, ice packs recommended in summer months. Leaking samples may be assessed a HAZARD FEE.	rDVM single site- \$104; 1-3 sites- \$139, 4-9 sites- \$178, 10+ sites- \$214
Pathology	Head Heart & Hooves Private Cremation	Individual body cremation with ashes shipped to the owner by the crematorium	Must be accompanied with a necropsy.	see necropsy shipping requirements	\$214.00
Pathology	Immunohistochemistry (IHC) Stains	IHC Stains offered: CD3, CD18, CD79a, Factor 8, GFAP, anti-Mart-1-Melan A, CK-AE1/AE3, Vimentin, KI-67, NSE, and Iba-1	Formalin fixed paraffin embedded (FFPE) tissues or Unstained, FFPE tissue sections cut at 4-5µm, collected on positively charged slides for a total of 5 slides per antibody requested. If ViTALS has performed the histology or necropsy, please contact the laboratory to coordinate requesting IHC staining. Pricing is per antibody/per block or slide site requested.	Overnight, for paraffin blocks- ice packs recommended in summer months; for slides- package to prevent slides from damage during shipment.	Call for pricing
Pathology	Private Cremation- 41 to 75 lbs.	Individual body cremation with ashes shipped to the owner by the crematorium	Must be accompanied with a necropsy. Must provide animal's current weight.	see necropsy shipping requirements	\$ 172.00
Pathology	Private Cremation- 76 to 100 lbs.	Individual body cremation with ashes shipped to the owner by the crematorium	Must be accompanied with a necropsy. Must provide animal's current weight.	see necropsy shipping requirements	\$ 186.00
Pathology	Private Cremation- 101 to 150 lbs.	Individual body cremation with ashes shipped to the owner by the crematorium	Must be accompanied with a necropsy. Must provide animal's current weight.	see necropsy shipping requirements	\$ 207.00
Pathology	Private Cremation- less than 40 lbs.	Individual body cremation with ashes shipped to the owner by the crematorium	Must be accompanied with a necropsy. Must provide animal's current weight.	see necropsy shipping requirements	\$ 152.00
Pathology	Private Cremation- Over 150 lbs.	Individual body cremation with ashes returned to the owner by the crematorium using U.S. Postal Service	Must be accompanied with a necropsy. Must provide animal's current weight.	see necropsy shipping requirements	contact necropsy
Pathology	Vision Assessment Fee	Additional fee for Necropsy samples if the patient has never been in the VTH Vision system			\$ 11.00
Special Chemistry	Cortisol (Post)	Cortisol (Post)	Red Top, no additive tube: centrifuge the sample & transfer the supernatant (serum) to a sterile container (red-top or plastic tube) before shipping. Do not submit in serum separator tubes (tiger tops)	Overnight with ice packs	\$ 49.00
Special Chemistry	Cortisol (Pre)	Cortisol (Pre)	Red Top, no additive tube: centrifuge the sample & transfer the supernatant (serum) to a sterile container (red-top or plastic tube) before shipping. Do not submit in serum separator tubes (tiger tops)	Overnight with ice packs	\$ 49.00
Special Chemistry	Phenobarbital	Phenobarbital	Red Top, no additive tube: centrifuge the sample & transfer the supernatant (serum) to a sterile container (red-top or plastic tube) before shipping. Do not submit in serum separator tubes (tiger tops)	Overnight with ice packs	\$ 49.00

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Virginia Tech Animal Laboratory Services  
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Service Section	Test Name	Test Description	Sample Requirements	Shipping Requirements	Fee
Special Chemistry	Progesterone	Progesterone	Red Top, no additive tube: centrifuge the sample & transfer the supernatant (serum) to a sterile container (red-top or plastic tube) before shipping. Do not submit in serum separator tubes (tiger tops)	Overnight with ice packs	\$ 49.00
Special Chemistry	SNAP cPL	SNAP cPL	Red Top, no additive tube: centrifuge the sample & transfer the supernatant (serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 46.00
Special Chemistry	T4	T4	Red Top, no additive tube: centrifuge the sample & transfer the supernatant (serum) to a sterile container (red-top or plastic tube) before shipping. Do not submit in serum separator tubes (tiger tops)	Overnight with ice packs	\$ 43.00
Special Chemistry	T4, TSH	T4, TSH	Red Top, no additive tube: centrifuge the sample & transfer the supernatant (serum) to a sterile container (red-top or plastic tube) before shipping. Do not submit in serum separator tubes (tiger tops)	Overnight with ice packs	\$ 86.00
Special Chemistry	TSH	TSH	Red Top, no additive tube: centrifuge the sample & transfer the supernatant (serum) to a sterile container (red-top or plastic tube) before shipping. Do not submit in serum separator tubes (tiger tops)	Overnight with ice packs	\$ 43.00
Urinalysis	Urinalysis	Routine Urinalysis w/ specific gravity, fluid analysis, sediment exam	RED TOP NO ADDITIVE; Must mark submission form with method of collection.	Overnight with ice packs	\$ 46.00
Urine Chemistry	UAMY	Urine Amylase	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 17.00
Urine Chemistry	UCA	Urine Calcium	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 15.00
Urine Chemistry	UCL	Urine Chloride	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 17.00
Urine Chemistry	UCREA	Urine Creatinine	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 17.00
Urine Chemistry	UEGGT	Urine GGT	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 19.00
Urine Chemistry	UGLU	Urine Glucose	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 15.00
Urine Chemistry	UMG	Urine Magnesium	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 15.00
Urine Chemistry	UPHOS	Urine Phosphorus	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 15.00
Urine Chemistry	UK	Urine Potassium	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 17.00
Urine Chemistry	UPRO	Urine Protein	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 21.00
Urine Chemistry	UNA	Urine Sodium	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 17.00
Urine Chemistry	UBUN	Urine Urea Nitrogen	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 15.00