

# ViTALS Tests and Fees

Effective: 9/1/17

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	\$ 37.00
Blood Bank	DEA 1.1 Blood Type		PURPLE TOP EDTA	Overnight with ice packs	\$ 37.00
Blood Bank	Feline Blood Type		PURPLE TOP EDTA	Overnight with ice packs	\$ 37.00
Blood Gas	Ionized Calcium	Ionized Calcium	BG SYRINGE, GREEN TOP LI HEP, maintain sample in anaerobic conditions, do not expose to air.	Overnight with ice packs	\$ 10.00
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	\$ 19.00
Body Fluid Chemistry	Body Fluid ALKP	Body Fluid ALKP	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 10.00
Body Fluid Chemistry	Body Fluid Amylase	Body Fluid Amylase	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 11.00
Body Fluid Chemistry	Body Fluid Calcium	Body Fluid Calcium	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 10.00
Body Fluid Chemistry	Body Fluid Chloride	Body Fluid Chloride	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 10.00
Body Fluid Chemistry	Body Fluid Cholesterol	Body Fluid Cholesterol	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 10.00
Body Fluid Chemistry	Body Fluid Creatinine	Body Fluid Creatinine	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 10.00
Body Fluid Chemistry	Body Fluid Glucose	Body Fluid Glucose	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 10.00
Body Fluid Chemistry	Body Fluid Lipase	Body Fluid Lipase	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 11.00
Body Fluid Chemistry	Body Fluid Magnesium	Body Fluid Magnesium	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 10.00
Body Fluid Chemistry	Body Fluid Phosphorous	Body Fluid Phosphorous	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 10.00
Body Fluid Chemistry	Body Fluid Potassium	Body Fluid Potassium	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 10.00
Body Fluid Chemistry	Body Fluid Sodium	Body Fluid Sodium	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 10.00
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	\$ 10.00
Body Fluid Chemistry	Body Fluid Triglyceride	Body Fluid Triglyceride	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 11.00
Chemistry	ALB	Albumin	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	\$ 10.00
Chemistry	ALKP	ALKP	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	\$ 10.00
Chemistry	ALT	ALT (GPT)	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	\$ 10.00
Chemistry	AMMONIA	Ammonia	PURPLE TOP EDTA ON ICE	Overnight with ice packs	\$ 31.00
Chemistry	AMYL	Amylase	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	\$ 11.00
Chemistry	PANC	Amylase, Lipase	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	\$ 20.00
Chemistry	AST	AST (GOT)	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	\$ 10.00

# ViTALS Tests and Fees

Effective: 9/1/17

Service Section	Test Name	Test Description	Sample Requirements	Shipping Requirements	Fee
Chemistry	PreBA	Bile Acids (Fasting)	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	\$ 27.00
Chemistry	PostBA	Bile Acids (Post)	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	\$ 27.00
Chemistry	CA	Calcium	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	\$ 10.00
Chemistry	CL	Chloride	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	\$ 10.00
Chemistry	CHOL	Cholesterol	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	\$ 9.00
Chemistry	CK	CK	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	\$ 11.00
Chemistry	CO2	CO2	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	\$ 9.00
Chemistry	CREAT	Creatinine	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	\$ 10.00
Chemistry	D3HB	D3HB	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	\$ 12.00
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	\$ 11.00
Chemistry	GLU	Glucose	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	\$ 10.00
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 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	\$ 38.00

# ViTALS Tests and Fees

Effective: 9/1/17

Service Section	Test Name	Test Description	Sample Requirements	Shipping Requirements	Fee
Chemistry	HYPERTHY Panel	Glucose, Urea Nitrogen, Creatinine, ALT (GPT), ALKP	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	\$ 30.00
Chemistry	RENAL Panel	Glucose, Urea Nitrogen, Creatinine, Phosphorus, Calcium, Albumin, Cholesterol, Sodium, Potassium, Chloride, CO2, Anion Gap	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	\$ 42.00
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 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	\$ 53.00
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 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	\$ 53.00
Chemistry	CHEM 8 AU480	Glucose, Urea Nitrogen, Creatinine, Sodium, Potassium, Chloride, CO2, Anion Gap	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	\$ 17.00
Chemistry	PREOP Panel	Glucose, Urea Nitrogen, Creatinine, Total Protein, Albumin, Globulin, ALT (GPT), ALKP, Sodium, Potassium, Chloride	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	\$ 40.00
Chemistry	MOUSE PROFILE	Glucose, Urea Nitrogen, Creatinine, Total Protein, ALT (GPT)	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	\$ 26.00
Chemistry	BOVINE PROFILE	Glucose, Urea Nitrogen, Phosphorus, Calcium, Magnesium, CK, Sodium, Potassium, Chloride, CO2, D3HB	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	\$ 32.00
Chemistry	LIVER	Glucose, Urea Nitrogen, Total Protein, Albumin, Globulin, ALT (GPT), ALKP, GGT, Total Bilirubin, Cholesterol	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	\$ 38.00
Chemistry	LIPASE	Lipase	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	\$ 11.00
Chemistry	MG	Magnesium	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	\$ 10.00
Chemistry	NEFA	NEFA	RED TOP NO ADDITIVE ONLY: centrifuge sample & transfer supernatant (serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 16.00

# ViTALS Tests and Fees

Effective: 9/1/17

Service Section	Test Name	Test Description	Sample Requirements	Shipping Requirements	Fee
Chemistry	PHOS	Phosphorus	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	\$ 10.00
Chemistry	MIN	Phosphorus, Calcium, Magnesium	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	\$ 23.00
Chemistry	Large Animal Mini Profile	Phosphorus, Calcium, Magnesium, Total Protein, Albumin, Globulin, AST (GOT), GGT, Total Bilirubin, Direct Bilirubin, Indirect Bilirubin	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	\$ 53.00
Chemistry	CHICKEN PROFILE	Phosphorus, Calcium, Magnesium, Total Protein, ALT (GPT), AST (GOT), Total Bilirubin, Direct Bilirubin, Indirect Bilirubin, CK, Sodium, Potassium, Chloride	Green Top 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	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 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	\$ 33.00
Chemistry	K	Potassium	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	\$ 10.00
Chemistry	NA	Sodium	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	\$ 10.00
Chemistry	LYTES	Sodium, Potassium, Chloride, CO2, Anion Gap	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	\$ 24.00
Chemistry	SDH	Sorbitol dehydrogenase	RED TOP NO ADDITIVE ONLY: centrifuge sample & transfer supernatant (serum) to a sterile container (red-top or plastic tube) before shipping.	Overnight with ice packs	\$ 58.00
Chemistry	TBIL	Total Bilirubin, Direct Bilirubin, Indirect Bilirubin	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	\$ 10.00
Chemistry	TP	Total Protein	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	\$ 10.00
Chemistry	ALB/GLOB/TP	Total Protein, Albumin, Globulin	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

# ViTALS Tests and Fees

Effective: 9/1/17

Service Section	Test Name	Test Description	Sample Requirements	Shipping Requirements	Fee
Chemistry	TRIG	Triglycerides	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	\$ 11.00
Chemistry	BUN	Urea Nitrogen	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	\$ 10.00
Chemistry	NSAID Panel	Urea Nitrogen, Creatinine, Total Protein, ALT (GPT), ALKP, Total Bilirubin	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	\$ 32.00
Coagulation	PT	PT	BLUE TOP NA CITRATE	Overnight with ice packs	\$ 37.00
Coagulation	PTT	PTT	BLUE TOP NA CITRATE	Overnight with ice packs	\$ 37.00
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	\$ 41.00
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	\$ 67.00
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	\$ 67.00
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	\$ 67.00
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	\$ 32.00
Cytology	Buffy Coat	smear slide made from the layer separating the plasma from the packed cells	PURPLE TOP EDTA	Overnight with ice packs	\$ 11.00
Cytology	Basic Cytology- Smears		Smear Slides labeled with patient name and site	Slides in protective slide holder.	\$ 41.00
Cytology	Lymph node, single site		Slides, labeled with patient name and site	Slides in protective slide holder.	\$ 41.00
Cytology	Lymph node, multiple sites		Slides, labeled with patient name and site(s)	Slides in protective slide holder.	\$ 58.00
Hematology	Hemogram Equine	Analyzer blood counts only- No blood smear review/manual cell count	PURPLE TOP EDTA	Overnight with ice packs	\$ 21.00
Hematology	Hemogram Large Animal	Analyzer blood counts only- No blood smear review/manual cell count	PURPLE TOP EDTA	Overnight with ice packs	\$ 21.00
Hematology	Hemogram Small Animal	Analyzer blood counts only- No blood smear review/manual cell count	PURPLE TOP EDTA	Overnight with ice packs	\$ 21.00
Hematology	Hematocrit	Hematocrit	PURPLE TOP EDTA	Overnight with ice packs	\$ 9.00
Hematology	Hemoglobin	Hemoglobin	PURPLE TOP EDTA	Overnight with ice packs	\$ 10.00
Hematology	Manual Reticulocyte Count	Manual Reticulocyte Count, Manual Reticulocyte Absolute	PURPLE TOP EDTA	Overnight with ice packs	\$ 11.00
Hematology	Packed Cell Volume	Packed Cell Volume	PURPLE TOP EDTA	Overnight with ice packs	\$ 9.00
Hematology	PCV/TP	Packed Cell Volume, Plasma Protein, Plasma Appearance	PURPLE TOP EDTA	Overnight with ice packs	\$ 11.00
Hematology	PCV/TP/FIB	Packed Cell Volume, Plasma Protein, PP57, Fibrinogen, Plasma Appearance	PURPLE TOP EDTA	Overnight with ice packs	\$ 16.00

# ViTALS Tests and Fees

Effective: 9/1/17

Service Section	Test Name	Test Description	Sample Requirements	Shipping Requirements	Fee
Hematology	Plasma Protein	Plasma Protein	PURPLE TOP EDTA	Overnight with ice packs	\$ 9.00
Hematology	Fibrinogen, PP	Plasma Protein, Fibrinogen	PURPLE TOP EDTA	Overnight with ice packs	\$ 9.00
Hematology	Platelet Count	Platelets, Slide Platelet Estimate, Platelets Clumped, Platelet Morphology	PURPLE TOP EDTA	Overnight with ice packs	\$ 26.00
Hematology	RBC	RBC	PURPLE TOP EDTA	Overnight with ice packs	\$ 11.00
Hematology	CBC Equine	Submit smear slides made from EDTA--WB at time of draw	PURPLE TOP EDTA + 2 smear slides	Overnight with ice packs	\$ 50.00
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	\$ 50.00
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	\$ 48.00
Hematology	WBC	WBC	PURPLE TOP EDTA	Overnight with ice packs	\$ 12.00
Immunology	Clostridium Perfringens	Enzyme Immunoassay for enterotoxin detection	Feces	Submit within 2 hours of collection	\$ 44.00
Immunology	Clostridium Difficile	Enzyme immunoassay for the detection of toxins A & B produced by toxigenic strains of <i>C. difficile</i>	Feces	Submit within 2 hours of collection	\$ 44.00
Immunology	Brucella canis	Slide agglutination test	RED TOP NO ADDITIVE (1)	Overnight with ice packs	\$ 27.00
Immunology	FELV, FIV Combo	SNAP Test	Purple, green or red top tube	Overnight with ice packs	\$ 34.00
Immunology	SNAP 4Dx	SNAP Test	Purple, green or red top tube	Overnight with ice packs	\$ 40.00
Immunology	Camelid IgG (RID)		RED TOP NO ADDITIVE (1)	Separate serum within 2 hours of collection	\$ 54.00
Microbiology	Acid Fast Stain		Culture swabs/culturettes preferred; Fluids & tissue in sterile container or red top tube	Overnight or same day delivery (hand deliver/courier) is best for samples submitted for culture. Culture swabs/culturettes preferred & can be kept at room temperature. Fluids & tissue should be kept cold, and tissues should not be allowed to dry out.	\$ 9.00
Microbiology	Anaerobic Culture		Anaerobe swab, if a swab is used. For fluids, submit in a container with all air removed, such as a syringe. 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 (hand deliver/courier) is best for samples submitted for culture. Culture swabs/culturettes preferred & can be kept at room temperature. Fluids & tissue should be kept cold, and tissues should not be allowed to dry out.	\$ 23.00
Microbiology	Blood Culture		Standard blood collection bottles only	Hand deliver/courier, contact lab	\$ 73.00
Microbiology	Fecal Screen Culture		Feces	Overnight, Cary Blair transport media at room temperature is best	\$ 37.00
Microbiology	Fungal Culture (Mycology)		Culture swabs/culturettes preferred; Fluids & tissue in sterile container or red top tube	Overnight or same day delivery (hand deliver/courier) is best for samples submitted for culture. Culture swabs/culturettes preferred & can be kept at room temperature. Fluids & tissue should be kept cold, and tissues should not be allowed to dry out.	\$ 24.00
Microbiology	Gram Stain		Culture swabs/culturettes preferred; Fluids & tissue in sterile container or red top tube	Overnight or same day delivery (hand deliver/courier) is best for samples submitted for culture. Culture swabs/culturettes preferred & can be kept at room temperature. Fluids & tissue should be kept cold, and tissues should not be allowed to dry out.	\$ 9.00
Microbiology	MRSA/MRSI/MRSP Culture Screen	Only screens for Methicillin-resistant <i>Staphylococcus spp.</i>	Culture swabs/culturettes preferred; Fluids & tissue in sterile container or red top tube	Overnight or same day delivery (hand deliver/courier) is best for samples submitted for culture. Culture swabs/culturettes preferred & can be kept at room temperature. Fluids & tissue should be kept cold, and tissues should not be allowed to dry out.	\$ 21.00
Microbiology	Routine (Aerobic) Culture + Sensitivity		Culture swabs/culturettes preferred; Fluids, & tissue in sterile container or red top tube. Urine preferred submission: sterile container or red top tube	Overnight or same day delivery (hand deliver/courier) is best for samples submitted for culture. Culture swabs/culturettes preferred & can be kept at room temperature. Fluids & tissue should be kept cold, and tissues should not be allowed to dry out.	\$ 39.00

# ViTALS Tests and Fees

Effective: 9/1/17

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
Microbiology	Salmonella Culture		Culture swabs/culturettes preferred; Fluids & tissue in sterile container or red top tube	Overnight or same day delivery (hand deliver/courier) is best for samples submitted for culture. Culture swabs/culturettes preferred & can be kept at room temperature. Fluids & tissue should be kept cold, and tissues should not be allowed to dry out.	\$ 23.00
Microbiology	Strep Equi Screen Culture		Culture swabs/culturettes preferred; Fluids & tissue in sterile container or red top tube	Overnight or same day delivery (hand deliver/courier) is best for samples submitted for culture. Culture swabs/culturettes preferred & can be kept at room temperature. Fluids & tissue should be kept cold, and tissues should not be allowed to dry out.	\$ 14.00
Molecular Diagnostics	Feline Coronavirus/FIP PCR	Will accept but not validated for: ascites fluid, 0.5mL (red top tube)	Formalin-fixed Paraffin Embedded tissue block	Freeze liquid samples; ship overnight with ice packs	\$ 42.00
Molecular Diagnostics	Canine Distemper Virus PCR	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)	Formalin-fixed Paraffin Embedded tissue block	Freeze liquid samples; ship overnight with ice packs	\$ 42.00
Molecular Diagnostics	Bovine Respiratory Syncytial Virus PCR	Will accept but not validated for: lung tissue (whir-pak or sterile specimen container), respiratory swabs (dry), 0.5mL Bronchoaveolar lavage fluid (BAL)(red top tube)	Formalin-fixed Paraffin Embedded tissue block	Freeze liquid samples; ship overnight with ice packs	\$ 42.00
Molecular Diagnostics	Bovine Viral Diarrhea Virus PCR	Will accept but not validated for: nasal swabs (dry)	Formalin-fixed Paraffin Embedded tissue block	Freeze liquid samples; ship overnight with ice packs	\$ 42.00
Molecular Diagnostics	Bovine Herpesvirus Type 1/IBR PCR	Will accept but not validated for: respiratory swabs (dry), 0.5mL Bronchoaveolar lavage (BAL) fluid(red top tube), lung, fetal liver, spleen, placenta, trachea (whir-pak or steril specimen container)	Formalin-fixed Paraffin Embedded tissue block	Freeze liquid samples; ship overnight with ice packs	\$ 42.00
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.	\$ 78.00
Parasitology	Heartworm Antibody Test	<i>Dirofilaria</i> , cats only	PURPLE TOP EDTA	Ship samples overnight with ice.	\$ 30.00
Parasitology	Heartworm Antigen Test	<i>Dirofilaria</i> , dogs & cats	PURPLE TOP EDTA	Ship samples overnight with ice.	\$ 25.00
Parasitology	Knott's Test for Microfilariae	Microfilariae (heartworm)	PURPLE TOP EDTA	Ship samples overnight with ice.	\$ 13.00
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.	\$ 15.00
Parasitology	McMaster Standard	Quantitative test for small ruminants, horses, & cattle (cattle <2 years of age)	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.	\$ 15.00
Parasitology	Zinc Sulfate Flotation Test	Routine flotation for parasite screening in small animals	2-5g of feces	Place fecal sample in an unbreakable, leak-proof container. Ship samples overnight with ice; prevent direct contact between ice and fecal sample.	\$ 19.00
Parasitology	Sedimentation	<b>Small Animal:</b> Fluke eggs <b>Large Animals:</b> Flukes	5-10g of feces	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.	\$ 13.00



# ViTALS Tests and Fees

Effective: 9/1/17

Service Section	Test Name	Test Description	Sample Requirements	Shipping Requirements	Fee
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	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.	\$ 19.00
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	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.	\$ 12.00
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.	\$ 15.00
Parasitology	Giardia Antigen SNAP Test		5g of Feces	Place fecal sample in an unbreakable, leak-proof container. Ship samples overnight with ice; prevent direct contact between ice and fecal sample.	\$ 23.00
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, avoid freezing carcasses	Greater than 300 lbs- \$165. Less than 300 lbs.- \$77
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.	Single site- \$70; 2-3 sites- \$93, 4-9 sites- \$120, 10+ sites- \$145
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.	Single site- \$70; 2-3 sites- \$93, 4-9 sites- \$120, 10+ sites- \$145
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	\$ 194.00
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.	\$ 41.00
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	\$ 156.00
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	\$ 169.00
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	\$ 188.00



# ViTALS Tests and Fees

Effective: 9/1/17

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	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	\$ 138.00
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
Special Chemistry	Cortisol (Post)	Cortisol (Post)	RED TOP NO ADDITIVE, Do not submit serum separator tube (tiger tops)	Overnight with ice packs	\$ 32.00
Special Chemistry	Cortisol (Pre)	Cortisol (Pre)	RED TOP NO ADDITIVE, Do not submit serum separator tube (tiger tops)	Overnight with ice packs	\$ 32.00
Special Chemistry	Phenobarbital	Phenobarbital	RED TOP NO ADDITIVE, Do not submit serum separator tube (tiger tops)	Overnight with ice packs	\$ 32.00
Special Chemistry	Progesterone	Progesterone	RED TOP NO ADDITIVE, Do not submit serum separator tube (tiger tops)	Overnight with ice packs	\$ 70.00
Special Chemistry	SNAP cPL	SNAP cPL	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 30.00
Special Chemistry	T4	T4	RED TOP NO ADDITIVE, Do not submit serum separator tube (tiger tops)	Overnight with ice packs	\$ 28.00
Special Chemistry	T4, TSH	T4, TSH	RED TOP NO ADDITIVE, Do not submit serum separator tube (tiger tops)	Overnight with ice packs	\$ 52.00
Special Chemistry	TSH	TSH	RED TOP NO ADDITIVE, Do not submit serum separator tube (tiger tops)	Overnight with ice packs	\$ 28.00
Urinalysis	Urinalysis	Routine Urinalysis w/ specific gravity, fluid an:	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 30.00
Urine Chemistry	UAMY	Urine Amylase	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 10.00
Urine Chemistry	UCA	Urine Calcium	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 9.00
Urine Chemistry	UCL	Urine Chloride	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 10.00
Urine Chemistry	UCREA	Urine Creatinine	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 10.00
Urine Chemistry	UEQGGT	Urine GGT	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 11.00
Urine Chemistry	UGLU	Urine Glucose	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 9.00
Urine Chemistry	UMG	Urine Magnesium	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 9.00
Urine Chemistry	UPHOS	Urine Phosphorus	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 9.00
Urine Chemistry	UK	Urine Potassium	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 10.00
Urine Chemistry	UPRO	Urine Protein	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 13.00
Urine Chemistry	UNA	Urine Sodium	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 10.00
Urine Chemistry	UBUN	Urine Urea Nitrogen	RED TOP NO ADDITIVE	Overnight with ice packs	\$ 9.00