

ViTALS Tests and Fees

Fees Effective: 08/5/2022

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 | \$ 51.00 |
| Blood Bank | DEA 1.1 Blood Type | | PURPLE TOP EDTA | Overnight with ice packs | \$ 51.00 |
| Blood Bank | Feline Blood Type | | PURPLE TOP EDTA | Overnight with ice packs | \$ 51.00 |
| 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 | \$ 15.00 |
| 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 | \$ 27.00 |
| Body Fluid Chemistry | Body Fluid ALKP | Body Fluid ALKP | RED TOP NO ADDITIVE | Overnight with ice packs | \$ 15.00 |
| Body Fluid Chemistry | Body Fluid Amylase | Body Fluid Amylase | RED TOP NO ADDITIVE | Overnight with ice packs | \$ 17.00 |
| Body Fluid Chemistry | Body Fluid Calcium | Body Fluid Calcium | RED TOP NO ADDITIVE | Overnight with ice packs | \$ 15.00 |
| Body Fluid Chemistry | Body Fluid Chloride | Body Fluid Chloride | RED TOP NO ADDITIVE | Overnight with ice packs | \$ 15.00 |
| Body Fluid Chemistry | Body Fluid Cholesterol | Body Fluid Cholesterol | RED TOP NO ADDITIVE | Overnight with ice packs | \$ 15.00 |
| Body Fluid Chemistry | Body Fluid Creatinine | Body Fluid Creatinine | RED TOP NO ADDITIVE | Overnight with ice packs | \$ 15.00 |
| Body Fluid Chemistry | Body Fluid Glucose | Body Fluid Glucose | RED TOP NO ADDITIVE | Overnight with ice packs | \$ 15.00 |
| Body Fluid Chemistry | Body Fluid Lipase | Body Fluid Lipase | RED TOP NO ADDITIVE | Overnight with ice packs | \$ 17.00 |
| Body Fluid Chemistry | Body Fluid Magnesium | Body Fluid Magnesium | RED TOP NO ADDITIVE | Overnight with ice packs | \$ 15.00 |
| Body Fluid Chemistry | Body Fluid Phosphorous | Body Fluid Phosphorous | RED TOP NO ADDITIVE | Overnight with ice packs | \$ 15.00 |
| Body Fluid Chemistry | Body Fluid Potassium | Body Fluid Potassium | RED TOP NO ADDITIVE | Overnight with ice packs | \$ 15.00 |
| Body Fluid Chemistry | Body Fluid Sodium | Body Fluid Sodium | RED TOP NO ADDITIVE | Overnight with ice packs | \$ 15.00 |
| 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 | \$ 15.00 |
| Body Fluid Chemistry | Body Fluid Triglyceride | Body Fluid Triglyceride | RED TOP NO ADDITIVE | Overnight with ice packs | \$ 17.00 |
| 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 | \$ 15.00 |
| 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 | \$ 15.00 |
| 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 | \$ 15.00 |
| Chemistry | AMMONIA | Ammonia | Purple Top EDTA tube: centrifuge the sample as soon as possible & transfer the plasma to a sterile container before shipping. Sample should be drawn same day as submission day. | Courier or hand deliver only, on ice. | \$ 43.00 |
| 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 | \$ 17.00 |
| 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 | \$ 28.00 |

ViTALS Tests and Fees

Fees Effective: 08/5/2022

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 |
|-----------------|-----------|----------------------|--|--------------------------|----------|
| 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 | \$ 15.00 |
| 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 | \$ 37.00 |
| 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 | \$ 37.00 |
| 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 | \$ 15.00 |
| 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 | \$ 15.00 |
| 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 | \$ 15.00 |
| 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 | \$ 17.00 |
| 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 | \$ 13.00 |
| 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 | \$ 15.00 |
| 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 | \$ 18.00 |
| 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 | \$ 17.00 |
| 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 | \$ 15.00 |

ViTALS Tests and Fees

Fees Effective: 08/5/2022

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 |
|-----------------|----------------------|--|--|--------------------------|----------|
| 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 | \$ 52.00 |
| 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 | \$ 41.00 |
| 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 | \$ 58.00 |
| 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 | \$ 72.00 |
| 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 | \$ 72.00 |
| 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 | \$ 24.00 |
| 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 | \$ 54.00 |
| 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 | \$ 36.00 |
| 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 | \$ 44.00 |
| 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 | \$ 52.00 |
| 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 | \$ 17.00 |

ViTALS Tests and Fees

Fees Effective: 08/5/2022

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 |
|-----------------|---------------------------|---|--|--------------------------|----------|
| 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 | \$ 15.00 |
| 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 | \$ 15.00 |
| 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 | \$ 32.00 |
| 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 | \$ 47.00 |
| 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 | \$ 51.00 |
| 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 | \$ 46.00 |
| 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 | \$ 15.00 |
| 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 | \$ 15.00 |
| 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 | \$ 33.00 |
| 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 | \$ 15.00 |
| 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 | \$ 15.00 |
| 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 | \$ 27.00 |

ViTALS Tests and Fees

Fees Effective: 08/5/2022

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 |
|-----------------|---------------------------|--|--|--|----------|
| 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 | \$ 17.00 |
| 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 | \$ 15.00 |
| 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 | \$ 44.00 |
| 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 | \$ 51.00 |
| 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 | \$ 51.00 |
| 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 | \$ 60.00 |
| 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 | \$ 90.00 |
| 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 | \$ 79.00 |
| 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. | \$ 90.00 |
| 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. | \$ 40.00 |
| 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 | \$ 60.00 |
| Cytology | Basic Cytology- Smears | | Smear Slides labeled with patient name and site | Slides in protective slide holder. DO NOT SHIP WITH FORMALIN FIXED SAMPLES. | \$ 60.00 |

ViTALS Tests and Fees

Fees Effective: 08/5/2022

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 |
|-----------------|-----------------------------------|--|--|---|----------|
| Cytology | Lymph node, single site | | Slides, labeled with patient name and site | Slides in protective slide holder. DO NOT SHIP WITH FORMALIN FIXED SAMPLES. | \$ 60.00 |
| 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. | \$ 80.00 |
| Hematology | Hemogram Equine | Analyzer blood counts only- No blood smear review/manual cell count | PURPLE TOP EDTA | Overnight with ice packs | \$ 30.00 |
| Hematology | Hemogram Large Animal | Analyzer blood counts only- No blood smear review/manual cell count | PURPLE TOP EDTA | Overnight with ice packs | \$ 30.00 |
| Hematology | Hemogram Small Animal | Analyzer blood counts only- No blood smear review/manual cell count | PURPLE TOP EDTA | Overnight with ice packs | \$ 30.00 |
| Hematology | Reticulocyte Count | Automated Reticulocyte Count, Reticulocyte Absolute | PURPLE TOP EDTA | Overnight with ice packs | \$ 17.00 |
| Hematology | Packed Cell Volume | Packed Cell Volume | PURPLE TOP EDTA | Overnight with ice packs | \$ 13.00 |
| Hematology | PCV/TP | Packed Cell Volume, Plasma Protein, Plasma Appearance | PURPLE TOP EDTA | Overnight with ice packs | \$ 17.00 |
| Hematology | PCV/TP/FIB | Packed Cell Volume, Plasma Protein, Fibrinogen, Plasma Appearance | PURPLE TOP EDTA | Overnight with ice packs | \$ 22.00 |
| Hematology | Plasma Protein | Plasma Protein | PURPLE TOP EDTA | Overnight with ice packs | \$ 13.00 |
| Hematology | Platelet Count | Platelets, Slide Platelet Estimate, Platelets Clumped, Platelet Morphology | PURPLE TOP EDTA | Overnight with ice packs | \$ 36.00 |
| Hematology | CBC Equine | Submit smear slides made from EDTA--WB at time of draw | PURPLE TOP EDTA + 2 smear slides | Overnight with ice packs | \$ 68.00 |
| 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 | \$ 68.00 |
| 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 | \$ 65.00 |
| Immunology | Clostridium Perfringens | Enzyme Immunoassay for enterotoxin detection | Feces in a leak-proof specimen container | Submit within 2 hours of collection | \$ 60.00 |
| 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 | \$ 60.00 |
| Immunology | FELV,FIV Combo | SNAP Test | Purple, GREEN TOP LI HEP or red top tube | Overnight with ice packs | \$ 47.00 |
| Immunology | SNAP 4Dx | SNAP Test | Purple, GREEN TOP LI HEP or red top tube | Overnight with ice packs | \$ 54.00 |
| Immunology | Camelid IgG (RID) | | RED TOP NO ADDITIVE | Separate serum within 2 hours of collection | \$ 73.00 |
| Microbiology | Acid Fast 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. | \$ 13.00 |
| 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. | \$ 39.00 |
| Microbiology | Blood Culture | | Standard blood collection bottles only | Ship/store at room temperature. Overnight or same day delivery. | \$ 99.00 |
| 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. | \$ 32.00 |
| 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</i> ssp (from all animal species) and <i>Campylobacter</i> ssp (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. | \$ 50.00 |

ViTALS Tests and Fees

Fees Effective: 08/5/2022

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 | 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. | \$ 42.00 |
| 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. | \$ 39.00 |
| 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. | \$ 13.00 |
| 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. | \$ 30.00 |
| 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. | \$ 30.00 |
| 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. | \$ 32.00 |
| 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. | \$ 55.00 |
| 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. | \$ 25.00 |
| 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. | \$ 27.00 |
| Molecular Diagnostics | Borrelia burgdorferi qPCR | | Ticks submerged in ≥70% ethanol (≥1/2 adult tick, ≥1 nymph, or ≥5 larvae) | | \$ 58.00 |
| 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 | \$ 58.00 |
| 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. | \$ 58.00 |
| 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) | | \$ 58.00 |
| 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. | \$ 83.00 |
| Molecular Diagnostics | Theileria Anaplasma Duplex qPCR | Bovine only. Detection of Theileria orientalis and Anaplasma marginale | EDTA WB (preferred), other anticoagulated blood specimens are acceptable | ** TEST PRICE INCREASES TO \$54 after 1/2/2023** | \$ 25.00 |

ViTALS Tests and Fees

Fees Effective: 08/5/2022

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 |
|-----------------------|---------------------------------------|---|---|---|---|
| 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) | | \$ 58.00 |
| Molecular Diagnostics | Anaplasma phagocytophilum | Detection of Anaplasma phagocytophilum | | | \$ 58.00 |
| Parasitology | Heartworm Antigen Test | <i>Dirofilaria</i> , dogs & cats | PURPLE TOP EDTA | Ship samples overnight with ice. | \$ 35.00 |
| Parasitology | Knott's Test for Microfilariae | Microfilariae (heartworm) | PURPLE TOP EDTA | Ship samples overnight with ice. | \$ 19.00 |
| 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. Exception: 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. | \$ 21.00 |
| 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. Exception: 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. | \$ 21.00 |
| 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. | \$ 27.00 |
| Parasitology | Sedimentation | Small Animal: Fluke eggs Large Animals: 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. | \$ 19.00 |
| Parasitology | Sheather's Sugar Float | Small Animal: Flotation, including tapeworms, Physaloptera Large Animal: 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. | \$ 27.00 |
| Parasitology | Baermann Exam | Small Animals: Nematode larvae (e.g. <i>Strongyloides</i> , <i>Aleurostrongylus</i>) *Requires 12-24 hours Large Animals: 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. | \$ 18.00 |
| Parasitology | Parasite Identification | Small Animals: ID of helminth & arthropod parasites (e.g. adult worms, ticks, mites) Large Animals: 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. | \$ 22.00 |
| 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. | \$ 32.00 |
| 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.- \$220. Less than 300 lbs.- \$104 |

ViTALS Tests and Fees

Fees Effective: 08/5/2022

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- \$126, 4-9 sites- \$161, 10+ sites- \$194 |
| 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- \$94; 1-3 sites- \$126, 4-9 sites- \$161, 10+ sites- \$194 |
| 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. | 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 | \$ 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 |
| 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 |
| Pathology | Vision Assessment Fee | Additional fee for Necropsy samples if the patient has never been in the VTH Vision system | | | \$ 10.00 |
| 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 | \$ 44.00 |
| 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 | \$ 44.00 |
| 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 | \$ 44.00 |

ViTALS Tests and Fees

Fees Effective: 08/5/2022

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 |
|-------------------|--------------|---|---|--------------------------|----------|
| 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 | \$ 44.00 |
| 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 | \$ 41.00 |
| 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 | \$ 39.00 |
| 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 | \$ 78.00 |
| 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 | \$ 39.00 |
| 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 | \$ 41.00 |
| Urine Chemistry | UAMY | Urine Amylase | RED TOP NO ADDITIVE | Overnight with ice packs | \$ 15.00 |
| Urine Chemistry | UCA | Urine Calcium | RED TOP NO ADDITIVE | Overnight with ice packs | \$ 13.00 |
| Urine Chemistry | UCL | Urine Chloride | RED TOP NO ADDITIVE | Overnight with ice packs | \$ 15.00 |
| Urine Chemistry | UCREA | Urine Creatinine | RED TOP NO ADDITIVE | Overnight with ice packs | \$ 15.00 |
| Urine Chemistry | UEGGT | Urine GGT | RED TOP NO ADDITIVE | Overnight with ice packs | \$ 17.00 |
| Urine Chemistry | UGLU | Urine Glucose | RED TOP NO ADDITIVE | Overnight with ice packs | \$ 13.00 |
| Urine Chemistry | UMG | Urine Magnesium | RED TOP NO ADDITIVE | Overnight with ice packs | \$ 13.00 |
| Urine Chemistry | UPHOS | Urine Phosphorus | RED TOP NO ADDITIVE | Overnight with ice packs | \$ 13.00 |
| Urine Chemistry | UK | Urine Potassium | RED TOP NO ADDITIVE | Overnight with ice packs | \$ 15.00 |
| Urine Chemistry | UPRO | Urine Protein | RED TOP NO ADDITIVE | Overnight with ice packs | \$ 19.00 |
| Urine Chemistry | UNA | Urine Sodium | RED TOP NO ADDITIVE | Overnight with ice packs | \$ 15.00 |
| Urine Chemistry | UBUN | Urine Urea Nitrogen | RED TOP NO ADDITIVE | Overnight with ice packs | \$ 13.00 |