

## **General fees**

Submission fee, per accession

Mailing fee, via US Mail or UPS ground (minimum charge, or actual if over)

Hazardous Shipping, Fedex, (required for infectious agents) (minimum charge, or actual if over)

Overnight, UPS, non-infectious agents (minimum charge, or actual if over)

Field Trip by VDL personnel (in-state only \$150/hr – 2 hrs minimum – mileage NOT included)

Emergency testing available for some tests. Additional fees apply. Contact the lab for details.

**Research rates/testing available. Contact the lab for details.**

## **PATHOLOGY**

### **Biopsy**

Biopsy – small (1 site), less than 3 inches (1-5 slides) Each additional site \$10.00

Biopsy – medium (1 site), 3-6 inches (6-10 slides) Each additional site \$10.00

Biopsy – large (1 site), larger than 6 inches (11 or more slides) Each additional site \$10.00

Biopsy – Skin (1-3 punch), 4-5 punch add \$10, 6-10 punch add \$10,

Biopsy, Lymphoma Panel, (Includes CD3 and CD79 IHC's), per site

Biopsy, Consultation (histology services not included)

### **Necropsy**

Necropsy, gross ONLY (1-2 animals) no ancillary testing

Necropsy, gross and histopathology ONLY (1-2 animals) no ancillary testing

Necropsy, each additional animal over two, gross and histopathology ONLY

**Necropsy Packages** \* may include UPTO 7 (non-clinical pathology) tests at no charge

Necropsy Package (1-2 animals) Includes limited ancillary testing\*

Necropsy Package, poultry and game birds (up to 2 birds) includes limited ancillary testing\*

Necropsy Package – Limbs includes limited ancillary testing\*

Multiple tissues for multiple exams, (NIAB) (tissues of 1-2 animals) includes limited ancillary testing\*

Additional fees that may apply to Necropsy or Necropsy Packages

Necropsy, Cosmetic (companion animals only), additional charge

Necropsy, Neurologic, Spinal Cord Exam (formerly CNS) additional charge

Necropsy, Bovine 30m+ spine removal, additional charge (if Neuro NOT ordered)

Necropsy, Emergency (after hours or weekends), additional charge

Euthanasia fee, Large Animal (when chemicals are necessary) additional charge

Euthanasia fee, Companion Animal, additional charge

Euthanasia fee, Avian (CO2) (1-4 birds) or Large animal no chemicals, additional charge

Disposal Fee - per pound for wildlife, companion animal, exotics (min \$5.00)

Disposal Fee - production animals, equine, cervids (less than 250#), per animal

Disposal Fee - production animals, equine, cervids (250# - 750#), per animal

Disposal Fee - all animals over 750#, (per animal)

Return remains fee, shipping not included

### **Rabies**

Rabies, brain removal for submission for rabies examination

Rabies FA Test

### **Other Pathology/Histology**

Scrapie Specimen Collection (USDA), per animal (no matter size) additional charge

Scrolls for PCR testing

Decalcification – Light (Bone Marrow)

Decalcification/Keratin/Chitin/Nitric Acid – up to 4 cassettes

Decalcification – Large Tissue

H & E routine stain

Special stains, histopathology sections

Immunohistochemistry (per antigen) positive and negative slide included

Bovine viral diarrhea virus (BVDV) PI Screen by IHC, skin, ear notches (1 -6 animals : each addtl above 6 – \$3.50)

## **FORENSIC PATHOLOGY \*\*NEW**

\*\*For cases involving potential animal cruelty or potential litigation, separate submission form, see website

Necropsy, gross and histopathology (All ancillary testing charged at full price)

Neurologic, Spinal Cord Exam (formerly CNS) additional charge

Forensic Consultation – Hourly charge

Long term tissue/body storage (up to 1 year), renewable

## **CLINICAL PATHOLOGY**

### **Panels**

Canine Total Health Panel (CBC, Chem panel, UA, T4, Canine SNAP 4DX)

Feline Total Health Panel (CBC, Chem panel, UA, T4, Feline Heartworm)

Health Panel – canine, feline (CBC, Chem panel, UA, T4)

Panel – canine, feline (CBC, Chem panel, T4)

Coag Panel #1 – canine, feline (PT, PTT, Fibrinogen, Platelet)

Coag Panel #2 – canine (PT, PTT, Fibrinogen, Platelet, FDP)

Coag Panel #3 – canine (PT, PTT, Fibrinogen, FDP)

IMHA Panel – canine, feline (CBC, Direct Coombs, retic)

### **Profiles**

Chemistry Profiles

#### **General Profile**

**Canine** (ALT, ALP, C-ALP, GGT, total bilirubin, BUN, Ca, glucose, albumin, total protein, creatinine, cholesterol, phosphorus, HCO<sub>3</sub>, Na, K, Cl, triglycerides)

**Equine/Large Animal** (CK, AST, ALP, total bilirubin, BUN, glucose, Ca, albumin, Mg, Na, K, Cl, total protein, phosphorus, creatinine, cholesterol, HCO<sub>3</sub>, GLDH, GGT, triglycerides)

**Feline** (ALP, total bilirubin, BUN, glucose, albumin, ALT, GGT, Ca, Na, K, Cl, total protein, phosphorus, creatinine, cholesterol, HCO<sub>3</sub>, triglycerides)

**Avian and Reptile** available, contact lab for pricing and availability

Electrolyte Profile (Na, K, Cl, Albumin, Ca, P, HCO<sub>3</sub>)

Alkaline Phos Isoenzyme Profile – (Alk Phos, C-Alk Phos, Bone, Liver fractions)

Cortisol Induced Alkaline Phos (CIALP) Profile - (Alk Phos, C-Alk Phos)

Liver Profiles

**Canine** (ALT, ALP, C-ALP, GGT, total bilirubin, BUN, glucose, albumin, cholesterol)

**Feline** (ALT, ALP, GGT, total bilirubin, BUN, glucose, albumin, cholesterol)

**General** (ALT, ALP, GGT, total bilirubin, BUN, glucose, albumin, total protein, cholesterol)

**Large Animal** (AST, ALP, GGT, total bilirubin, albumin, cholesterol, GLDH, triglycerides)

Pre-Surgical Profile – (ALKP, ALT, albumin, BUN, creatinine, globulin, glucose, total protein)

Renal Profile (creatinine, BUN, total protein, albumin, Ca, phosphorus, Na, K, Cl, total CO<sub>2</sub>)

### **Individual Chemistries**

ALT (SGPT)

AST (SGOT)

Albumin

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Alkaline phosphatase total  
Ammonia  
Beta-hydroxy-butyrate (BHB), serum, 8 sample minimum – Contact lab for availability (\$10.25 each addtl)  
Bicarbonate (total CO<sub>2</sub>)  
Bile acid  
Blood urea nitrogen (BUN)  
Bromides  
Calcium  
Chloride (serum, CSF, fluid)  
Cholesterol, total  
Creatinine  
Creatinine Phosphokinase (CPK) CK  
Electrolyte clearance study (urine and serum)  
Fructosamine  
GLDH  
Glucose  
Magnesium  
Non-Esterified Fatty Acids (NEFA), serum, 8 sample minimum – Contact lab for availability (\$10.25 each addtl)  
Phenobarbital  
Phosphorus  
Potassium  
Protein: Creatinine ratio (urine)  
Sodium  
Sodium, potassium, chloride  
Total bilirubin  
Total protein (fluid, urine)  
Total protein (serum)  
Triglycerides

**Cytology**

Aspirate and impression (slide) 1 site  
    Aspirate and impression (slide), additional sites 2 -5 (per site)  
    Aspirate and impression (slide), site 6  
    Aspirate and impression (slide), additional sites 7 -9 (per site)  
Blood parasite smear, EDTA blood  
Bone marrow  
Bronchial alveolar lavage (BAL) – right and left  
Buffy Coat Exam  
Fluid analysis with cytology  
Transtracheal Wash (TTW)  
Immunocytochemistry (ICC) (per antigen) (lymph node, bone marrow, or lesion)  
Lymphoma package (cytology, CD3, CD79)  
Alkaline Phosphatase stain  
Cytospin smear preparation

**Hematology**

CBC, complete blood count (with differential)  
CBC, complete blood count, avian/reptile (with differential)  
Coombs, direct

Crossmatch  
Platelet count  
Retic count

**Hemostasis**

Fibrin Degradation Products (FDP)  
Fibrinogen (blood in sodium citrate tube -blue top)  
Prothrombin time (PT)  
Partial Thromboplastin Time (PTT)  
PT/PTT

**Endocrine**

Cortisol  
    ACTH stimulation, 2 sera, 0.5 ml each (\$13.50/each)  
    ACTH stimulation, each additional  
    HDDS, 2 sera, 0.5 ml each  
    HDDS, each additional  
    LDDS, 2 sera, 0.5 ml each  
    LDDS, each additional  
    Cortisol, 1 serum, 0.5 ml each

Progesterone, canine  
T4 total canine, feline  
Thyroid profile (endogenous TSH and T4), canine ONLY  
TSH (endogenous), canine ONLY

**Other Clinical Pathology**

Canine Snap@4DX panel (includes E canis, heartworm, Lyme disease and Anaplasma phagocytophilum)  
Feline Heartworm antibody  
Pancreatic SNAP Lipase (Canine and Feline)  
Urinalysis (routine)  
Emergency fee, clinical pathology testing, after hours – technician  
Emergency fee, Cytology, after hours – Clinical Pathologist

**IMMUNOLOGY**

Antinuclear antibody (ANA) IFA  
Brucella  
Johne's ELISA, 1-3 samples each (samples 4 to 9 - \$6.25 each) (bulk pricing: 10 or over - \$6.25 each)  
Mycoplasma hyopneumoniae ELISA  
Neospora caninum ELISA  
Neospora caninum IFA  
Toxoplasma gondii IgG titer IFA  
Toxoplasma gondii IgG/IgM screen IFA  
Toxoplasma gondii IgG titer/IgM screen IFA

**MICROBIOLOGY**

**Cultures**

Aerobic Packages, must be ordered up front, additional susceptibilities at full price see below pricing  
    Aerobic culture with one susceptibility (additional susceptibilities at full price)  
    Aerobic culture up to 2 susceptibility (additional susceptibilities at full price)

Aerobic culture up to 4 susceptibility (additional susceptibilities at full price)

Urine culture only, available only when urine is submitted

Urine Culture with susceptibility (warranted testing only)

Aerobic culture only, no susceptibility

Anaerobic culture only, no susceptibility

Banking and slants for transport, per organism

Campylobacter culture, PCR speciation

Environmental Culture (post cleaning and disinfection)

Mastitis evaluation (1-19 milk samples for culture), each

Mastitis evaluation ( $\geq 20$  milk samples for culture), each

Milk bulk tank, (qualitative and quantitative)

Mycoplasma culture – see Molecular Microbiology Assays section

Mycobacterium culture – (rapidly growing, not paratuberculosis or TB)

Mycology, fungal culture

Rapid Urea – Helicobacter pylori screen

Salmonella culture – see Molecular Micro Assays section

Shigella culture

### **Susceptibility Testing**

Susceptibility (Etest MIC), individual drug

Susceptibility (Kirby Bauer), individual drug

Susceptibility testing, (Kirby Bauer), ophthalmology isolates or fastidious organisms (add-on pricing)

Susceptibility testing, full MIC w/ interpretation (companion, equine, porcine, bovine, poultry, urine) (add-on pricing)

Susceptibility testing, milk samples (see VDL website for panel configurations)

Susceptibility testing, anaerobic (see VDL website for panel configurations)

Susceptibility testing, antifungal (see VDL website for panel configurations)

Susceptibility testing, mycobacterium (see VDL website for panel configurations)

### **Molecular Microbiology Assays**

16S-23S rRNA PCR (extraction and PCR)

16S-23S rRNA gene sequencing for bacterial speciation (if PCR positive)

5S-18S rRNA PCR (extraction and PCR)

5S-18S rRNA gene sequencing for fungal speciation (if PCR positive)

Brucella PCR (positives include culture) one test

Brucella Card

Brucella BAPA

Brucella RAP

Brucella Rivanol

Clostridium difficile toxin ELISA, per specimen

Clostridium perfringens, toxin typing (DNA amplification)

E. coli virulence testing by PCR (adhesions and toxins)

Enterococcus Cytolysin PCR

Eperythrozoonosis suis (Mycoplasma haemosuis, M. haemolamae ), DNA amplification

Francisella tularensis PCR

Geomyces destructans/White Nose Syndrome (WNS) PCR

Hemobartonella (h) canis/felis, PCR (Mycoplasma haemocanis, M. haemofelis, M. haemominutum & M. turicensis)

- Haemophilus parasuis cephalosporin resistance – TEM PCR, per isolate
- Haemophilus parasuis tetracycline resistance – Tet PCR, per isolate
- Lawsonia PCR
- Leptospira Panel, companion animal urine rPCR and serum MAT (7 serovars) urine & serum together
- Leptospira screen MAT (7 serovars) – serology profile (companion or food animal)
- Leptospira microagglutination titer, per serovar
  - (autumnalis, bratislava, canicola, grippityphosa, hardjo, icterohemorrhagiae, pomona)
- Leptospira PCR – pathogenic serovars detected in urine or biopsy
- Leptospira Titer Profile (1-8 samples), price per each
  - Leptospira Titer Profile (9 or more samples), price per each
- Listeria monocytogenes PCR, positives confirmed by culture, per specimen
- Methicillin resistance – mecA PCR, per isolate (MRSA, MRSP)
- Mycobacterial PCR
  - Mycobacterial speciation by sequencing (if PCR positive)
- Mycoplasma PCR (includes some food animal species specific primers)
  - Mycoplasma speciation by rRNA sequencing
- Pasteurella Toxin A PCR
- Potomac Horse Fever nested PCR, per specimen
- Rhodococcus equi rPCR
- Salmonella PCR (positives include culture) one test
  - Salmonella PCR (positives include culture) 3 successive tests
- Salmonella serotyping, NVSL, diagnostic cases – No Charge for test, Fedex shipping charges applicable
- Strep equi M-protein gene PCR (includes Strep culture), 1-9 samples, price per each
  - Strep equi M-protein gene PCR (includes Strep culture), 10 or more samples, price per each
- Streptococcus seM gene sequencing, per isolate
- Streptococcus szp gene sequencing, per isolate
- Tick Panel (includes Anaplasma, Babesia, Bartonella, Borrelia, Ehrlichia and Rickettsia) PCR
  - Individual tick PCRs – Anaplasma, Babesia, Bartonella, Borrelia, Ehrlichia, Rickettsia – price per each

### **Special Microbiology Stains**

- Acid-fast stain and examination
- Gram Stain and evaluation
- Lactophenol Cotton Blue (LPCB) fungal stain
- Victoria Blue 4-R stain for Spirochetes (Brachyspira/Serpulina sp.)

### **PARASITOLOGY**

- Baermann technique
- Cryptosporidium acid-fast stain, feces (includes flotation)
- Fecal Egg count
- Fecal flotation
- Giardia
- Microfilaria (Knott's)
- Parasite identification

### **VIROLOGY**

#### **Antigen Detection and Identification**

Bovine viral diarrhea virus (BVDV) (PI screen by VI and ICC), serum

Electron microscopy (EM, negative-staining), feces

Electron microscopy (transmission EM), tissue

Feline herpesvirus (VI and EM), tissue

Rotavirus antigen assay, feces, intestinal contents

Virus isolation (VI) in cell culture

**Fluorescent Antibody Tests**

Bluetongue virus (BTV), fresh tissue

Bovine adenovirus 1, fresh tissue

Bovine adenovirus 3, fresh tissue

Bovine adenovirus 5, fresh tissue

Bovine coronavirus (BCoV), fresh tissue (intestines: ileum, jejunum, colon)

Bovine herpesvirus type 1, (IBR) fresh tissue

Bovine herpesvirus (BHV) type 2, fresh tissue

Bovine herpesvirus (BHV) type 4, fresh tissue

Bovine papular stomatitis virus (BPSV), fresh tissue

Bovine parainfluenza virus type 3 (PI3), fresh tissue

Bovine parvovirus (BPV), fresh tissue

Bovine pseudocowpox virus, fresh tissue

Bovine reovirus, fresh tissue

Bovine respiratory syncytial virus (BRSV), fresh tissue, swabs

Bovine rotavirus, fresh tissue

Bovine viral diarrhea virus (BVDV) types 1 and 2, fresh tissue

Canine adenovirus (types 1 and 2), fresh tissue

Canine coronavirus, fresh tissue

Canine distemper virus, fresh tissue, conjunctival scrapings

Canine herpesvirus, fresh tissue

Canine parainfluenza virus type 2, fresh tissue

Canine parvovirus, fresh tissue

Epizootic hemorrhagic disease virus, fresh tissue

Equine adenovirus, fresh tissue

Equine herpesvirus type 1&4 (EHV-1 EHV-4, ERV, viral abortion), fresh tissue, nasal swab

Feline herpesvirus (FHV), fresh tissue, swabs

Feline infectious peritonitis (corona) virus (FIP, FECV), fresh tissue

Feline panleukopenia virus (FPV, parvovirus), fresh tissue

Ovine contagious ecthyma (ORF) (contagious pustular dermatitis), fresh tissue

Porcine adenovirus, fresh tissue

Porcine circovirus (PCV2), fresh tissue

Porcine hemagglutinating encephalomyelitis virus (HEV), fresh tissue

Porcine parvovirus (PPV), fresh tissue (fetus)

Porcine respiratory coronavirus (PRCV), fresh tissue

Porcine rotavirus, fresh tissue (intestine)

Porcine transmissible gastroenteritis virus (TGEV), fresh tissue

Pseudorabies virus (PRV), porcine or canine, fresh tissue

Swine influenza virus (SIV), fresh tissue

### **Molecular Virology Assays**

Bluetongue virus BTV/EHDV multiplex (differentiates) rRT-PCR (whole blood/tissue), per animal  
Bovine coronavirus (BCoV) rRT-PCR (feces, GI contents, intestine, nasal swab), per animal  
Bovine respiratory disease panel (BRDP) rRT-PCR (BRSV, IBR, PI3)  
Bovine viral diarrhea (BVDV) types 1 and 2 multiplex (differentiates) rRT-PCR (serum, plasma), per animal  
Bovine viral diarrhea (BVDV) types 1 and 2 multiplex (differentiates) rRT-PCR (whole blood, tissue), per animal  
Equine arteritis virus (EAV, EVA) rRT-PCR (lung), per animal  
Equine arteritis virus (EAV, EVA) rRT-PCR (swabs), per animal  
Equine herpesvirus type 1 (EHV 1) rPCR (swabs, CSF), per animal  
Equine herpesvirus type 1 (EHV 1) rPCR (tissue, semen, whole blood), per animal  
Equine herpesvirus type 4 (EHV 4) rPCR (swabs, CSF), per animal  
Equine herpesvirus type 4 (EHV 4) rPCR (tissue, semen, whole blood), per animal  
Equine respiratory panel (EAV, EHV 1, EHV 4, Influenza A virus) (lung), per animal  
Equine respiratory panel (EAV, EHV 1, EHV 4, Influenza A virus) (swabs), per animal  
Influenza A virus matrix rRT-PCR (lung), per animal (avian, canine, feline, equine)  
Influenza A virus matrix rRT-PCR (swabs), per animal (avian, canine, feline, equine)  
Newcastle/Avian Paramyxovirus (NDV/APMV) rRT-PCR (lung)  
Newcastle/Avian Paramyxovirus (NDV/APMV) rRT-PCR (swab)  
Porcine circovirus type 2 rPCR (serum) – pooled, per pool  
Porcine circovirus type 2 rPCR (serum), per sample  
Porcine circovirus type 2 rPCR (tissue, raw semen, extended semen, pooled semen) – pooled, per pool  
Porcine circovirus type 2 rPCR (tissue, raw semen, extended semen, pooled semen), per sample  
Porcine delta coronavirus (PDCoV) rRT-PCR (feces, fecal swab, GI contents, intestine, OF, enviro), per sample  
Porcine epidemic diarrhea virus (PEDV) rRT-PCR, (feces, GI contents, intestines, nasal swabs), per animal  
Porcine transmissible gastroenteritis (TGEV) RT-PCR (feces, gi content, )intestine, oral fluids, env swabs)  
PRRSV ORF5 sequence alignment from a case to previous cases  
PRRSV ORF5 sequence profile (complete ORF5 sequencing and alignment to reference stains)  
PRRSV rRT-PCR multiplex (differentiates) (oral fluids), per animal  
PRRSV rRT-PCR multiplex (differentiates) (pooled sera), per sample  
PRRSV rRT-PCR multiplex (differentiates) (pooled tissue, raw semen, extended semen), per sample  
PRRSV rRT-PCR multiplex (differentiates) (serum), per animal  
PRRSV rRT-PCR multiplex (differentiates) (tissue, raw semen, extended semen), per animal  
Swine Enteric Corona Disease (SECD) rRT-PCR Panel (PEDV, PDCoV and TGEV) submitted at the same time

### **Serological Assays for Anti-Virus Antibodies (serum)**

Bluetongue virus (BTV) ELISA  
Bovine herpesvirus type 1 (BHV 1, IBR) SN titer  
Bovine leukosis virus (BLV) AGID OR ELISA  
Bovine parainfluenza virus type 3 (PI3) SN titer  
Bovine viral diarrhea virus (BVDV) type 1 or 2 endpoint titer, per sample  
Bovine viral diarrhea virus (BVDV) type 1 or 2 SN titer  
Caprine arthritis encephalitis (CAE) virus AGID  
Encephalomyocarditis (EMC) virus, SN titer (porcine only)  
Epizootic hemorrhagic disease virus (EHD) AGID  
Equine arteritis virus (EAV, EVA) SN titer  
Equine herpesvirus (EHV-1/EHV-4) SN titer



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Equine infectious anemia (EIA/Coggins) virus AGID serology  
Equine infectious anemia (EIA/Coggins) virus ELISA -Ab  
Feline calicivirus (FCV) SN titer  
Feline herpesvirus (FHV1)type 1 SN titer  
Feline immunodeficiency virus (FIV) ELISA-Ab  
Feline infectious peritonitis (FIP) virus IFA antibody screen (no titer), serum or plasma  
Feline infectious peritonitis virus (FIP) virus IFA antibody titer  
Feline leukemia virus (FeLV) ELISA-Ag  
Feline profile I (FIP, FIV, FeLV, Toxoplasmosis IgG & IgM) ELISA and IFA  
Feline profile II (FIP, FeLV) ELISA  
Ovine progressive pneumonia (OPP) virus AGID  
Porcine transmissible gastroenteritis (TGE) virus SN titer  
PRRSV antibody screen ELISA (Oral Fluids)  
PRRSV antibody screen ELISA (Serum)  
PRRSV antibody screen IFA (U.S. and European strain)  
PRRSV antibody titer IFA (U.S. and European strain)  
Pseudorabies virus g1  
Pseudorabies virus gB  
Stat Fee - tissue samples/per case  
Stat Fee - fluid samples/per case

**WILDLIFE EPIDEMIOLOGY \*\*NEW** more tests in development, check website for latest offerings

Ophidiomyces qPCR  
Bd ( Chytrid qPCR  
Bsal Chytrid qPCR  
Box Turtle Upper Respiratory Panel (Fv3, Terrapene Herpesvirus 1 and Box Turtle Mycoplasma qPCR's)  
FV3 Ranavirus qPCR  
Terrapene Herpesvirus 1 qPCR  
Box Turtle Mycoplasma qPCR  
Chelonian herpesvirus consensus PCR  
DNA gene sequencing for speciation (if Consensus PCR positive)