** CVM Veterinary Medical Diagnostic Laboratory Submission Form**

 **1-800-UMC-VMDL 800-862-8635 Fax 573-882-1411**

 **Courier Address** [**www.vmdl.missouri.edu**](http://www.vmdl.missouri.edu) **US Mail Address**

VMDL, 810 E. Campus Loop, Columbia, MO 65211 VMDL, PO Box 6023, Columbia, MO 65205

Acct No **\_\_\_\_\_\_\_\_\_\_\_\_\_** □ Email **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date Sample Taken** \_\_\_\_\_**\_\_\_\_ Date Sent \_\_\_\_\_\_\_\_**

Phone  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ □** Fax **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Owner**\_**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Veterinarian**  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Address \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Clinic \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ City \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ State \_\_\_ Zip \_\_\_\_\_\_\_\_

Address\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Phone \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

City \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ State\_\_\_\_\_\_ Zip \_\_\_\_\_\_\_\_\_\_

 **Animal Tag/ID**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**Species** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Breed** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Sex**\_\_\_\_\_\_\_ **Age\_**\_\_\_\_\_\_\_ **Weight**\_\_\_

# in Group \_\_\_\_ Sick \_\_\_ Dead \_\_ Raised on Premises? \_\_\_If purchased, when?\_\_\_\_\_\_\_ New introductions? \_\_ Date Introduced \_\_\_\_

Date noticed sick \_\_\_\_\_\_\_\_ Euthanized? \_\_\_\_Method of euthanasia **\_\_\_\_\_\_**Time/ Date of Death \_\_\_\_\_\_

**Presenting complaint/Systems of interest: Choose as many as apply.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| □Normal | □Fever | □Neurological | □Hepatic | □GI/Diarrhea |
| □Abortion/Repro Failure | □Endocrine  | □Sudden Death | □Urinary/urogenital | □Musculoskeletal/lameness |
| □Edema | □Ocular | □Neoplasia/Mass  | □Chronic weight loss | □Cardiac |
| □Respiratory | □Anorexia | □Dermatological | □Production/performance | □Hematological/Hemorrhage |
| □Erosion/Vesicular | □Other\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |  decline |

**Clinical/Differential Diagnosis: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Additional History: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**□ Necropsy Exam □ Necropsy+Histopathology □ Necropsy+Histo with Laboratory Tests □ Abortion Panel □Toxicology (additional fees)**

**□ Biopsy**  **□ FA Diarrhea panel-feces □ FA Diarrhea panel–tissues □ FA Respiratory panel**

 **□ Mail-In Necropsy with Lab Tests*\*There may be an additional fee for MULTISYSTEMIC (enteric AND respiratory) exam of mail-in and necropsy specimens.\****

\*Duration \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\*Margins inked/Tagged?\_\_\_\_\_\_\_\*Treatment\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ When started/how long? \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Response to therapy? \_ **yes** \_ **no** \_ **partially.**  **If tumor,** Size \_\_\_\_ Duration \_\_\_\_\_\_\_\_ Rate of growth \_\_\_ **slow** \_\_\_ **fast** Recurrence \_\_\_**yes** \_\_\_**no**

  

|  |  |  |
| --- | --- | --- |
| **Sample type** |  |  |
| □Tissue, Fresh | □Blood |  |  |
| □Tissue, Fixed | □Serum |  |  |
| □Feces | □Urine |  |  |
| □Other\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |  |

**Circle lesions mark “X” for biopsy locations**

**Cytologic Exam—Label slides with animal ID & site.** Pertinent clinical information: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

□ **Cytology** **-** **List site(s)** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 **Circle** Collection Method: Washes Aspirates Imprints Brushes Scrapings Other \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

□ **Multiple Lymph Node Cytology** (2-4 Lymph Nodes) – **List site(s)** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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□ **Fluid Analysis, including Cytology – Send Fluid in an EDTA tube along with slides** □ **CSF Analysis –** Call for instructions

 **Circle** fluid type: Pleural Peritoneal Synovial Pericardial­ □ **Bronchoalveolar Lavage -- Send Fluid in an EDTA tube along with slides**

**Bacteriology □ Feces □ Swab from** **\_\_\_\_\_\_\_\_\_\_ □ Tissue from \_\_\_\_\_\_\_\_\_\_ □ Urine:** **\_\_**Cystocentesis **\_\_**Free Catch **□ Other** \_\_\_\_\_\_

□ Aerobic bacterial culture with **up to 3** susceptibilities (**fixed price and MUST select before tests run**)

 □ Aerobic culture □Anaerobic culture □ Antimicrobial susceptibility □Enteric screen (bovine, canine, porcine) □ Fungal culture □ Abortion screen □ Blood culture □ *Salmonella* □ Johne’s culture □ Johne’s direct PCR fecal Tritrichomonas foetus □ PCR or □ culture

 □ Other\_\_\_\_\_\_\_\_\_\_\_\_\_Treated with antibiotics recently? Y/N Antibiotic used, when, and last dose\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Toxicology** □ Feed\_\_\_ □ Blood \_\_□ Serum\_\_ □ Fresh Tissue\_\_ □ Other\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ □ Consult Toxicologist

□ Aflatoxin in milk and liver □ Ammonia □ Calcium serum; ocular fluid □ Cholinesterase activity whole blood, brain □ Copper □ Ergot Alkaloids in feedstuffs □ Ergot/Fescue Alkaloids in feedstuff □ Lead □ Magnesium serum and ocular fluid □ Mycotoxin Screen □ Nitrate –feed –ocular □ Rumen pH (included with necropsy) □ Vitamin E □ Other\_\_\_\_\_\_\_\_\_\_\_\_**\_\_\_\_\_\_**

**Rabies testing**: □ Brain only □ Entire body with brain removal & carcass disposal [send out] □ Chronic Wasting Disease (CWD) [send out]

***Lab use only*** □ **Cold Pac** □ **Frozen** □ **None** □ **Room Temp. Sample Condition** □ **Broken** □ **Leaked** □ **Other** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*\*\*Clients submitting specimens are considered to have agreed to VMDL testing procedures, policies and fees (view at:* [*http://www.vmdl.missouri.edu/*](http://www.vmdl.missouri.edu/)*).*

*Specimens become the property of the VMDL.*

 **Tube/Name/No. Species Breed Sex Age Tube/Name/No. Species Breed Sex Age**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** |  |  |  |  |  |  | **3** |  |  |  |  |  |
| **2** |  |  |  |  |  |  | **4** |  |  |  |  |  |

 **PCR Panels**

**Bovine Enteric :** Bovine Coronavirus, Rotavirus and BVDI & II □

**Bovine Pink Eye :** IBR, *Mycoplasma bovis, Mycoplasma bovoculi* □

**Bovine Respiratory :** BVD I & II, BRSV,PI3, IBR □

**Canine Respiratory Panel :** Canine Distemper Virus, Influenza A, Canine Adenovirus□

**Equine Enteric :** *Salmonella, Lawsonia*, Potomac Horse Fever (EDTA blood and feces) □

**Equine Enteric: plus** *Clostridium difficile* toxin A&B ELISA and

 *Clostridium perfringens* ELISA (call for instruction) □

**Porcine Enteric 1 (young pigs)** Delta Coronavirus, PEDV, Rotavirus A**, TGEV** □

**Porcine Enteric 2 (older pigs)** *Brachyspira spp*., *Lawsonia intracellularis,*

 *Salmonella spp.* □

**Porcine Respiratory :** PRRSV, PCV2 Influenza A *Mycoplasma hyopneumoniae*□

**Serology (1 ml serum, redtop or separator tube) PCR/Virology (EDTA whole blood, CNS fluid, swabs, tissue, feces or as noted)**

*Anaplasma phagocytophilum*(K9, Fel)□ IFA □ PCR

Anaplasmosis □ ELISA □ PCR

Aspergillosis □ AGID

Blastomycosis □ AGID

Blastomycosis and Histoplasmosis □AGID

Bluetongue □ ELISA □ PCR

*Borrelia burgdorferi* (Lyme Dz) □ IFA □ PCR

Bovine Coronavirus □ PCR

Bovine Leukosis □ ELISA □ PCR (EDTA blood)

Bovine Respiratory Syncytial Virus □ PCR

*Brucella canis* □ Card

**BVD (Bovine viral diarrhea) testing options**:

 IHC (up to 6 **fixed** ear notches per slide) □

 Herd screen serum or **fresh** ear notch ELISA □

 PCR (tissues, feces or EDTA blood) □

 Serum neutralization (serum) □

*Brachyspira spp*. □ PCR

*Brucella* □ Card

Canine Coronavirus □ PCR

Canine Distemper □IgG antibody (IFA)

 □ IgM (IFA) □PCR

Canine Distemper Parvo Titer □ ELISA

Canine Heartworm □ ELISA

Canine Parvovirus □ IgG antibody □ IgM

 antibody □ PCR

*Chlamydophila psittaci* □ PCR

Coccidiomycosis □ AGID

*Cryptococcus* □ Antibody □ Antigen-LA

*Ehrlichia spp*. □ IFA □ PCR

Enteric virus □ Electron microscopy

Equine Herpesvirus □SN □ EHV 1&4 PCR

Equine Infectious Anemia (EIA) □

Equine Viral Arteritis □ ELISA □ SN

Epizootic Hemorrhagic Disease Virus

 (EHD) □ AGID □ PCR

Feline Calicivirus □ Virus Isolation

Feline Heartworm Antibody □

Feline Herpesvirus □ PCR

Feline Infectious Peritonitis (FIP) □ IFA □ PCR

FIV Antibody and FeLV Antigen – □ Snap test

Feline Leukemia Virus - □ FA

Histoplasmosis □ AGID

Infect. Bovine Rhinotracheitis(IBR)□ SN□ PCR

Influenza A □ PCR

Johne’s □ ELISA (serum) □ PCR (feces)

*Lawsonia intracellularis* □ PCR

*Leptospira* □ MA (6 serovars) □ PCR

*Mycoplasma* □ PCR w/sequencing

*Mycoplasma bovoculi* □ PCR

*Mycoplasma hyopneumoniae* □ ELISA □ PCR

*Neospora* □ ELISA

Parainfluenza 3 □ SN □ PCR

Porcine Circovirus (PCV2) □ PCR

Porcine Epidemic Diarrhea Virus(PEDV) □ PCR

PRRSV □ ELISA □ PCR

Potomac Horse Fever □ PCR (feces, EDTA)

Pseudorabies (PRV) □ ELISA □ PRV & Brucella

*R.rickettsii* (RMSF) □ IFA □ PCR

Rotavirus A □ PCR

*Salmonella* □ PCR

Senecavirus A real time □ PCR

Small Ruminant Lentivirus CAE & OPP □ ELISA

Swine Influenza □ ELISA □ PCR

Tick panel: *A. phagocytophilum, B.*

 *burgdorferi, E. canis, and R, rickettsii*

 □ IFA-serum □ PCR EDTA

Toxoplasma (feline) □ IFA □ PCR

Toxoplasma (all species) □ PCR

TGEV/Porcine respiratory coronavirus □ PCR □ SN

*Tritrichomonas foetus* □ PCR

 (InPouch within 48 hours)

Vesicular Stomatitis □ SN

West Nile IgM (equine only) □ ELISA

West Nile □ PCR

**Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |
| --- | --- | --- |
| **Chemistry** – centrifuge and remove serum/plasma into a separate tubeSpecimen type:□ Serum □ Plasma □ Urine□ Other \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_□ MAXI Profile □ MINI Profile □ RENAL Profile □ LIVER Profile □ Bile Acid Single □ Foal IgG □ Electrolyte and Mineral Panel □ Urine Protein/Creatinine □ Other \_\_\_\_\_\_\_\_\_\_\_\_\_\_**Coagulation**—CALL for instructions□ PT □ PTT  | **Hematology**□ CBC (small animal) - Submit EDTA tube & smears (includes fibrinogen in large animals) □ CBC (large animal) - Submit EDTA tube & smears (includes fibrinogen) □ Fibrinogen □ Knott’s test □ Coombs’ Test □ Smear Exam for \_\_\_\_\_\_\_\_\_\_\_\_\_□ Other \_\_\_\_\_\_\_\_\_\_\_\_\_**Bone Marrow** - submit concurrent  CBC or send recent CBC report□ Bone Marrow Aspirate □ Bone Marrow Core Biopsy **Fecal Examination**□ Flotation □ Fecal Occult Blood □ *Cryptosporidium* □ Baermann □ Direct Fecal Exam Other (specify) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | **Urinalysis (For Courier/ Local Samples Only)** □ Voided □ Cystocentesis□ Catheter □ Off Floor□ Complete UA □ UA w/o Sediment Exam □ Other (specify) \_\_\_\_\_\_\_\_\_\_\_\_**Endocrinology** □ Total T4 □ TSH (canine) □ Cortisol – Single □ ACTH Stimulation – 2 sample □ Dexamethasone Suppression -- 2 Sample □ Dexamethasone Suppression -- 3 Sample □ Progesterone (1 mL serum)□ Endogenous ACTH (1 mL EDTA  Plasma) (Equine) |

**Clinical Pathology must provide Date Sample Taken \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**