

# Montana Veterinary Diagnostic Laboratory Submission Guide & Fee Schedule

## LABORATORY ACCREDITATION, HOURS, AND CONTRACTUAL AGREEMENT FOR TESTING

The Montana Department of Livestock Veterinary Diagnostic Laboratory (MVDL) is an accredited American Association of Veterinary Laboratory Diagnosticians (AAVLD) laboratory and a member of the National Animal Health Laboratory Network (NAHLN). Normal laboratory hours of operation are Monday through Friday, 8:00 AM to 5:00 PM, except for select state holidays (New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day).

Submission forms and other guidance documents are available at our website: [www.liv.mt.gov](http://www.liv.mt.gov). Completed submission forms, web portal submissions, or any other accepted means of test service requests create a contractual agreement of services between the client and the MVDL.

## ACCESSIONS

An accession is defined as an MVDL case number assigned to specimens from animals that are submitted to the laboratory for diagnostic or surveillance testing by a veterinarian, owner, or other agent. For some testing and fees, there are discounted rates for livestock species (those subject to Department of Livestock per-capita fee: Cattle, Sheep and Goats, Horses and Mules, Swine, Poultry, Llamas and Alpacas, and Domestic Bison, Ratites, and other Alternative Livestock).

## SPECIMEN COLLECTION, IDENTIFICATION, PACKAGING, AND SHIPPING

Proper collection, identification, handling, and shipping of biological specimens directly impacts turnaround time and results.

- For testing services having regulatory significance, certain samples must be collected by an authorized sampler.
- Expired transport or culture media (*Tritrichomonas foetus* media, etc.) is not accepted for regulatory testing.
- Specimens must be identified and properly packaged within a biohazard-labeled, leak proof primary (inner) container and leak proof secondary (outer) container, with sufficient cushioning, absorbent materials and ice/dry ice/hot packs as weather and samples dictate. Samples must be shipped in a rigid outer container with a compliant shipping label.
- Testing may be performed with a disclaimer on specimen types not listed within this document; please contact the laboratory to discuss testing on non-listed or non-validated specimen types.
- All specimens must be accompanied by a completed submission form (including specific specimens and test requests) or a confirmation sheet from the online submission portal. Submission forms include single animal, multiple animal, surveillance program, and regulatory-approved documents; please see our website to access or link to the most current forms. Submission forms should be sealed in a protective bag and placed immediately inside (above samples) the rigid outer container to expedite processing.
- All submissions must have shipping cost or postage prepaid; "collect on delivery" shipments are not accepted.
- Any mailing costs incurred by the laboratory will be billed to the submitter.
- All shipments should be sent with package tracking; send for next day delivery (USPS Express, Fed Ex Overnight or UPS Next Day), second day delivery (Fed Ex 2 Day or UPS 2 Day) or 2-5 day delivery (USPS Priority, Fed Ex Home or UPS Ground). Flat rate shipping is available via UPS using the MVDL account/discount; please see our web portal at <https://mvdل.mt.gov> to create a shipping label.

All submitted specimens become the property of MVDL. Submitted specimens may be subjected to additional testing as determined by state or federal animal health or foreign animal disease surveillance mandates; non-mandated charges will not be assessed without prior submitter approval. Please contact the Montana Department of Livestock, Animal Health Bureau at 406-444-2043 for additional animal disease surveillance and high-impact foreign animal disease information.

## TURNAROUND TIME, TEST DAYS, AND RESULTS

The estimated turnaround time ranges listed within this document are based upon the number of business days typically required to complete testing under normal operating conditions. Our laboratory has also established some expected batch test run days to increase cost and test volume efficiencies for some assays. Both routine tests and lower volume tests (without a published schedule or estimated turnaround time) will be performed as quickly as staffing and instrumentation permit.

Results are available at our web portal: <https://mvdل.mt.gov>, or reports can be sent via e-mail, fax, or USPS mail. For the highest quality, most rapid reporting, we strongly recommend the online portal or e-mailed reports.

## ADDITIONAL INFORMATION

Please visit our website or contact the laboratory at 406-994-4885 for additional information, special requests, or assistance.

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ADMINISTRATIVE, PROCESSING, AND SUPPLY AND SERVICE FEES		
REQUEST	FEE	COMMENT
Accession fee	\$5.00	<i>(Applied to all cases, except for EIA submissions)</i>
STAT fee	50% surcharge	<i>(Applied to test fee when expedited results requested)</i>
Out-of-state fee	50% surcharge	<i>(Applied to test fee for out-of-state submitters)</i>
Case material (sample/ remains) return	\$25.00	<i>(When return/transfer is requested and approved)</i>
After-hours carcass receiving	\$25.00	<i>(Applied when after-hours receiving is arranged)</i>
Carcass disposal – livestock – per pound	\$.50	<i>(Carcass disposal fees for both livestock and other species are in addition to necropsy fees)</i>
Carcass disposal – non-livestock – per pound	\$1.00	
After-hours reporting	\$20.00	<i>(Applied to testing/reports requested after-hours)</i>
Delinquent accounts (>30 days past due) – per month	1.5%	<i>(Results withheld on accounts &gt;90 days past due)</i>
Duplicate hard copy test report	\$4.00	<i>(Printing and mailing of additional report copies)</i>
Diagnostic kit (Abortion, Diarrhea, Necropsy, Biopsy)	\$5.00	<i>(Shipping fees also assessed)</i>
Mailer – blood tube – small	\$2.50	<i>(Shipping fees also assessed)</i>
Mailer – blood tube – medium and 40-tube	\$5.00	<i>(Shipping fees also assessed)</i>
Mailer – blood tube – large	\$7.50	<i>(Shipping fees also assessed)</i>
Mailer – rabies shipper	\$22.00	<i>(Shipping fees also assessed)</i>
Organizational fee – per hour	\$75.00	<i>(Applied for samples not organized by animal ID)</i>
Shipping and handling – referral testing	\$20.00	<i>(Flat-rate; applied for referral testing requests)</i>
Incoming shipping – web submissions (flat-rate)	\$7.00	<i>(Applied through the online portal)</i>
Transport media – campylobacter tubes (x10)	\$20.00	<i>(10 tubes)</i>

TEST SERVICES AND FEES		
<b>PATHOLOGY</b>		
PLEASE CALL THE LABORATORY PRIOR TO SUBMISSION OF WHOLE CARCASSES.		
ON-SITE EUTHANASIA OF LIVESTOCK VIA CAPTIVE BOLT IS ONLY AVAILABLE IN SPECIAL CIRCUMSTANCES AND WHEN ARRANGED IN ADVANCE.		
FORMALIN-FIXED TISSUES AND/OR FRESH TISSUES MUST BE SUBMITTED IN A BIOHAZARD-LABELED, SEALED CONTAINER. <u>NO TAPE</u> ; PLEASE USE PARAFILM IF NEEDED. SECONDARY CONTAINERS REQUIRE ABSORBENT MATERIAL FOR FLUIDS.		
A COMPLETED SINGLE ANIMAL SUBMISSION FORM IS REQUIRED WITH SUBMISSION.		
<b>NECROPSY AND HISTOPATHOLOGY</b>		
REQUEST	FEE	SAMPLE GUIDANCE/ EST. SCHEDULE/ EST. TURNAROUND TIME
Abortion workup – livestock (for fetal necropsies, see Necropsy (laboratory) – livestock below)	\$65.00	Field abortion kit (preferred)/ please see our website for collection guidance and kit order forms/ M-F/ 2 days minimum
Biopsy – per site (includes special stains as needed)	\$55.00	Field biopsy kit (preferred)/ fixed tissue/ provide full history/ M-F/ 2 days minimum
Cytology aspirate, smear, imprint	\$45.00	Air dried slide(s) protected from breakage/ indicate origin and site and complete history/ scheduled when received/ 1 day minimum
Decalcification/ keratin treatment	\$11.00	Fixed or fresh tissue/ M-F/ 2 days minimum
Duplicate/ research/ other slide processing/ H&E – per slide	\$7.00	Re-cuts or slide processing without evaluation/ scheduled when received/ 1 day minimum
Fluid analysis (includes cytology)	see below	See listing under Clinical Pathology



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PATHOLOGY		
NECROPSY AND HISTOPATHOLOGY (CONTINUED)		
REQUEST	FEE	SAMPLE GUIDANCE/ EST. SCHEDULE/ EST. TURNAROUND TIME
Histopathology – field necropsy (includes special stains as needed)	\$55.00	Field necropsy kit (preferred)/ fixed tissue/ provide full history/ M-F/ 2 days minimum
Immunohistochemistry (IHC)	\$32.00	Per pathologist's discretion with submitter approval/ scheduled when received/ 2 days minimum
Margin inking/ evaluation	\$10.00	Per submitter's request/ scheduled when received/ 1-day minimum
Necropsy (laboratory) – livestock (includes basic abortion workup for fetal necropsy)	\$120.00	Please contact laboratory prior to submission/ M-F/ 2 days minimum
Necropsy (laboratory) – other species	\$150.00	Please contact laboratory prior to submission / M-F/ 2 days minimum
Neonatal diarrhea workup – livestock	\$125.00	Field neonatal diarrhea kit (preferred)/ please see our website for collection guidance and kit order forms/ M-F/ 2 days minimum
Pathologist time (includes legal/ insurance/ after-hours)	\$200.00	Hourly fee assessed in special circumstances/ scheduled when received
Special stain – additional request	\$10.00	Per specific request/ scheduled when received/ 2 days minimum
Spinal cord removal – small animal	\$75.00	When necessary in addition to necropsy charge/ scheduled when received/ 1 day minimum
Spinal cord removal – large animal	\$125.00	When necessary in addition to necropsy charge/ scheduled when received/ 1 day minimum

## RABIES

WHEN ENTIRE CARCASSES ARE SUBMITTED, CARCASS DISPOSAL FEES WILL BE ASSESSED AT THE RATES LISTED ABOVE.

RABIES TESTING OF LARGE ANIMAL SPECIES (CATTLE, HORSES, SHEEP, GOATS, PIGS, ETC.) INCLUDES HISTOLOGIC EVALUATION OF THE BRAIN AT NO ADDITIONAL CHARGE.

HISTOLOGIC EVALUATION OF SAMPLES FROM SMALL ANIMALS (EITHER DOMESTIC OR WILD) CAN BE PERFORMED UPON REQUEST FOR AN ADDITIONAL FEE.

A COMPLETED SINGLE ANIMAL SUBMISSION FORM IS REQUIRED WITH SUBMISSION.

IF MULTIPLE ANIMALS ARE SHIPPED IN ONE CONTAINER FOR RABIES TESTING, PLEASE CLEARLY IDENTIFY EACH ANIMAL ON THE RESPECTIVE SUBMISSION FORM, COMBINE ALL SUBMISSION FORMS, AND PLACE SUBMISSION FORMS IN A SEPARATE BAG.

## FLUORESCENT ANTIBODY TESTING

REQUEST	FEE	SAMPLE GUIDANCE/ EST. SCHEDULE/ EST. TURNAROUND TIME
Rabies – small animal	\$35.00	Disarticulated head or intact, entire fresh brain required/ ship with ice pack in insulated container/ M-F/ 1 day if received by 11:00 AM
Rabies – large animal (includes histologic evaluation)	\$65.00	Entire fresh brain required/ ship with ice pack in insulated container/ M-F/ 1 day if received by 11:00 AM



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## CLINICAL PATHOLOGY

MARKEDLY HEMOLYZED SAMPLES AND/OR SAMPLES UNDER 0.5 ML CANNOT BE TESTED.

LIPEMIC SAMPLES MAY BE TESTED IF SUFFICIENT VOLUME (0.5 ML MINIMUM) IS RECEIVED FOR CLEARING BEFORE TESTING.

PLEASE SUBMIT SPUN-DOWN SAMPLES TO PREVENT THE POTENTIAL NEED FOR SAMPLE RESUBMISSION.

A COMPLETED SINGLE ANIMAL SUBMISSION FORM IS REQUIRED WITH SUBMISSION.

## BIOCHEMISTRY PANELS

REQUEST	FEE	SAMPLE GUIDANCE/ EST. SCHEDULE/ EST. TURNAROUND TIME
Chemistry panel – small animal (includes CK, AST, ALT, ALP, Glu, Chol, TP, Alb, Glob, Ca, PO <sub>4</sub> , BUN, Creat, TBili, Na, K, Cl, & CO <sub>2</sub> , amylase included for canine only)	\$30.00	Minimum 0.5 ml serum or heparinized plasma/ M-F/ 1 day if received by 3:00 PM
Chemistry panel – large animal (includes CK, AST, GGT, ALP, Glu, TP, Alb, Glob, Ca, PO <sub>4</sub> , BUN, Creat, TBili, DBili, Na, K, Cl, CO <sub>2</sub> , & Mg)	\$30.00	Minimum 0.5 ml serum or heparinized plasma/ M-F/ 1 day if received by 3:00 PM
Endocrine panel – canine (includes CA, PO <sub>4</sub> , TP, Alb, ALP, ALT, AST, Chol, Na, K, Cl, TCO <sub>2</sub> , Glu, & Total T4)	\$28.00	Minimum 0.5 ml serum or heparinized plasma/ M-F/ 1 day if received by 3:00 PM
Geriatric panel – feline (includes ALP, ALT, AST, GGT, BUN, Cre, PO <sub>4</sub> , & Tot T4)	\$18.00	Minimum 0.5 ml serum or heparinized plasma/ M-F/ 1 day if received by 3:00 PM
Hepatic panel – small animal (includes ALT, AST, ALP, GGT, T Bili, D Bili, TP, Alb, Glob, Chol, BUN, & Glu)	\$24.00	Minimum 0.5 ml serum or heparinized plasma/ M-F/ 1 day if received by 3:00 PM
Renal panel – small animal (includes BUN, Cre, TP, Alb, Glob, Ca, PO <sub>4</sub> , Na, K, Cl, & TCO <sub>2</sub> )	\$24.00	Minimum 0.5 ml serum or heparinized plasma/ M-F/ 1 day if received by 3:00 PM

## CLINICAL PATHOLOGY

### CLINICAL PROFILES

REQUEST	FEE	SAMPLE GUIDANCE/ EST. SCHEDULE/ EST. TURNAROUND TIME
Clinical profile – small animal (includes CBC, differential, chemistry panel)	\$43.00	Minimum 0.5 ml serum or heparinized plasma and lavender top EDTA vacutainer tube at least half full/ M-F/ 1 day if received by 3:00 PM
Clinical profile – large animal (includes CBC, differential, fibrinogen, chemistry panel)	\$46.00	Minimum 0.5 ml serum or heparinized plasma and lavender top EDTA vacutainer tube at least half full/ M-F/ 1 day if received by 3:00 PM
Electrolyte panel (includes Na, K, Cl, & TCO <sub>2</sub> )	\$13.00	Minimum 0.5 ml serum or heparinized plasma/ M-F/ 1 day if received by 3:00 PM
Electrolyte panel – expanded (includes Ca, PO <sub>4</sub> , Mg, Na, K, Cl, & TCO <sub>2</sub> )	\$18.00	Minimum 0.5 ml serum or heparinized plasma/ M-F/ 1 day if received by 3:00 PM
Feline profile (includes CBC, differential, chemistry panel + total T4, FIA, FeLV, FIV)	\$80.00	Minimum 0.5 ml serum or heparinized plasma and lavender top EDTA vacutainer tube at least half full/ M-F/ 1 day if received by 3:00 PM
Fitness profile – equine (includes CK, AST, GGT, TP, Alb, Glob, Ca, PO <sub>4</sub> , TBili, Na, K, Cl, CO <sub>2</sub> , CBC, differential, & fibrinogen)	\$40.00	Minimum 0.5 ml serum or heparinized plasma and lavender top EDTA vacutainer tube at least half full/ M-F/ 1 day if received by 3:00 PM



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CLINICAL PATHOLOGY		
ENDOCRINOLOGY		
REQUEST	FEE	SAMPLE GUIDANCE/ EST. SCHEDULE/ EST. TURNAROUND TIME
Health screen – small animal (includes CBC, differential, chemistry panel, urinalysis)	\$58.00	Minimum 0.5 ml serum or heparinized plasma and lavender top EDTA vacutainer tube at least half full and 5.0 ml urine/ M-F/ 1 day if received by 3:00 PM
Health screen – large animal (includes CBC, differential, fibrinogen, chemistry panel, urinalysis)	\$60.00	Minimum 0.5 ml serum or heparinized plasma and lavender top EDTA vacutainer tube at least half full and 5 ml urine/ M-F/ 1 day if received by 3:00 PM
Pre-anesthetic profile – small animal (includes BUN, Cre, ALT, ALP, Glu, TP, CBC & differential)	\$30.00	Minimum 0.5 ml serum or heparinized plasma and lavender top EDTA vacutainer tube at least half full/ M-F/ 1 day if received by 3:00 PM
Adrenocorticotrophic hormone (ACTH) stimulation	\$35.00	Minimum 0.5 ml serum for each assay (collect sample prior to injection & 1-2 hours after injection)/ M-F/ 1 day if received by 3:00 PM
Cortisol – canine, feline, equine	\$18.00	Minimum 0.5 ml serum/ single sample/ M-F/ 1 day if received by 3:00 PM
Dexamethasone suppression – canine, feline	\$50.00	Minimum 0.5 ml serum for each assay (collect sample pre injection, 4 hours post injection, & 8 hours post injection)/ M-F/ 1 day if received by 3:00 PM
Dexamethasone suppression – equine	\$50.00	Minimum 0.5 ml serum for each assay (collect sample pre injection and 24 hours post injection)/ M-F/ 1 day if received by 3:00 PM
Free thyroxine (free T4) – canine, feline	\$12.00	Minimum 0.5 ml serum/ M-F/ 1 day if received by 3:00 PM
Thyroid panel – canine (includes canine total T4, canine TSH, free T4, & total T3)	\$35.00	Minimum 0.5 ml serum/ M-F/ 1 day if received by 3:00 PM
Thyroid panel – feline (includes total T4, free T4, & total T3)	\$30.00	Minimum 0.5 ml serum/ M-F/ 1 day if received by 3:00 PM
Total triiodothyronine (total T3)	\$12.00	Minimum 0.5 ml serum/ M-F/ 1 day if received by 3:00 PM
Total thyroxine (total T4) – canine, feline, equine	\$12.00	Minimum 0.5 ml serum/ M-F/ 1 day if received by 3:00 PM
Thyroid stimulating hormone (TSH) – canine	\$12.00	Minimum 0.5 ml serum/ M-F/ 1 day if received by 3:00 PM



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CLINICAL PATHOLOGY		
OTHER SERUM CHEMISTRY		
REQUEST	FEE	SAMPLE GUIDANCE/ EST. SCHEDULE/ EST. TURNAROUND TIME
Bile acids – canine, feline, equine	\$30.00	Minimum 0.5 ml serum or heparinized plasma/ single sample/ M-F/ 1 day if received by 3:00 PM
Bile acids – pre & post	\$42.00	Minimum 0.5 ml serum or heparinized plasma for each assay (collect sample at 12-hour fasting & 2 hours post prandial)/ M-F/ 1 day if received by 3:00 PM
Phenobarbital	\$28.00	Minimum 0.5 ml serum or heparinized plasma/ <b>DO NOT USE SERUM SEPARATOR TUBE</b> / M-F/ 1 day if received by 3:00 PM
Pancreatic lipase immunoreactivity (PLI) – canine, feline	\$28.00	Minimum 0.5 ml serum/ M-F/ 1 day if received by 3:00 PM

CLINICAL PATHOLOGY		
HEMATOLOGY		
REQUEST	FEE	SAMPLE GUIDANCE/ EST. SCHEDULE/ EST. TURNAROUND TIME
Anemia panel – feline (includes CBC/ differential, FeLV, FIV, FIA)	\$48.00	Minimum 0.5ml serum, lavender top EDTA vacutainer tube at least half full and slide(s) (optional)/ M-F/ 1 day if received by 3:00 PM
CBC/ differential – small animal (includes WBC, RBC, HGB, HCT, MCV, MCH, MCHC, platelets, WBC differential, plasma protein, parasite screen, & reticulocyte if indicated)	\$18.00	Lavender top EDTA vacutainer tube at least half full and slide(s) (optional)/ M-F/ 1 day if received by 3:00 PM
CBC/ differential – large animal (includes WBC, RBC, HGB, HCT, MCV, MCH, MCHC, platelets, WBC differential, plasma protein, parasite screen, & fibrinogen)	\$18.00	Lavender top EDTA vacutainer tube at least half full and slide(s) (optional)/ M-F/ 1 day if received by 3:00 PM
Fibrinogen	\$6.00	Lavender top EDTA vacutainer tube at least half full/ M-F/ 1 day if received by 3:00 PM
Hemotropic parasite screen	\$6.00	Lavender top EDTA vacutainer tube at least half full or slide(s)/ M-F/ 1 day if received by 3:00 PM
Reticulocyte count – manual	\$8.00	Lavender top EDTA vacutainer tube at least half full / M-F/ 1 day if received by 3:00 PM

CLINICAL PATHOLOGY		
URINOLOGY		
REQUEST	FEE	SAMPLE GUIDANCE/ EST. SCHEDULE/ EST. TURNAROUND TIME
Urinalysis (includes specific gravity, dipstick, glucose, bilirubin, ketones, blood, pH, urobilinogen, sulfosalicylic acid protein, & sediment evaluation)	\$15.00	Minimum 5.0 ml free-catch, catheterization or cystocentesis urine transferred to leak-proof container/ M-F/ 1 day if received by 3:00 PM



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CLINICAL PATHOLOGY		
MISCELLANEOUS TESTS		
REQUEST	FEE	SAMPLE GUIDANCE/ EST. SCHEDULE/ EST. TURNAROUND TIME
Blood cross match	\$18.00	Minimum 3ml whole blood lavender top EDTA vacutainer tube per animal/ M-F/ 1 day if received by 3:00 PM
Coagulation – prothrombin time (PT)	\$24.00	Light blue top sodium citrate vacutainer tube filled to mark/ <b>DO NOT OVER OR UNDER FILL</b> / centrifuged, plasma transferred to leak proof plastic tube, frozen/ ship frozen overnight with dry ice/ M-F/ 1 day if received by 3:00 PM
Coagulation – activated partial thromboplastin time (APTT)	\$24.00	Light blue top sodium citrate vacutainer tube filled to mark/ <b>DO NOT OVER OR UNDER FILL</b> / centrifuged, plasma transferred to leak proof plastic tube, frozen/ ship frozen overnight with dry ice/ M-F/ 1 day if received by 3:00 PM
Direct Coombs – canine	\$32.00	Minimum of 1 ml whole blood in lavender top EDTA vacutainer tube and slide(s)
IgG RID – bovine, equine	\$18.00	Minimum 0.5 ml serum, bovine, equine/ M-F/ 2 days
Nitrates	\$16.00	Minimum 0.25 ml ocular fluid or serum/ M-F/ 1 day if received by 3:00 PM
CLINICAL PATHOLOGY		
CYTOLOGY		
REQUEST	FEE	SAMPLE GUIDANCE/ EST. SCHEDULE/ EST. TURNAROUND TIME
CSF analysis (includes SG, total cell count, cytospin, cytology and referral laboratory microprotein)	\$60.00	CSF in red top vacutainer tube/ ship with ice pack/ M-F/ 1 -3 days
Cytology – aspirate, smear, imprint	See above	See listing under Pathology
Fluid Analysis (includes total cell count, TP, SG, cytology)	\$47.00	Minimum 0.5 ml fluid in lavender top EDTA tube and minimum 0.5ml fluid in red top vacutainer tube/ ship with ice pack/ M-F/ 1 day if received by 3:00 PM
CLINICAL MICROBIOLOGY		
ALL TRANSPORT AND CULTURE MEDIA SHOULD BE VERIFIED AS “NOT EXPIRED” PRIOR TO USE FOR SAMPLE SUBMISSION. A COMPLETED SINGLE ANIMAL SUBMISSION FORM IS REQUIRED WITH SUBMISSION.		
CULTURE AND SENSITIVITY		
REQUEST	FEE	SAMPLE GUIDANCE/ EST. SCHEDULE/ EST. TURNAROUND TIME
Aerobic culture	\$20.00	Swabs in transport media, fluids in sterile tubes, tissues in sterile bags/ ship with ice pack/ M-F/ 2-7 days
Aerobic – each additional isolate	\$10.00	Swabs in transport media, fluids in sterile tubes, tissues in sterile bags/ M-F/ 2-7 days



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CLINICAL MICROBIOLOGY		
CULTURE AND SENSITIVITY (CONTINUED)		
REQUEST	FEE	SAMPLE GUIDANCE/ EST. SCHEDULE/ EST. TURNAROUND TIME
Anaerobic culture	\$24.00	Swabs in anaerobic transport media, fluids in sterile tubes, tissue in sterile bags/ ship with ice pack/ M-F/ 3-7 days
Anaerobic – each additional isolate	\$10.00	Swabs in anaerobic transport media, fluids in sterile tubes, tissue in sterile bags/ ship with ice pack/ M-F/ 3-7 days
Antibiotic sensitivity – per isolate	\$15.00	Disk-diffusion method is not standardized for some isolates/ fee is per isolate tested/ M-F/ 2-7 days
Brucella culture	\$20.00	Swabs in transport media, fluids in sterile tubes, tissues in sterile bags/ M-F/ 5-14 days
Campylobacter culture	\$16.00	Reproductive preputial wash, fetal membranes, fetal abomasal fluid in campylobacter transport media (PRAS Campy-Thio, 7 ml) in tightly sealed tube, fresh feces, intestinal contents/ ship with ice pack/ M-F/ 5-7 days
Dermatophyte culture	\$30.00	Hair with skin scraping, scab, nails, claws, or beak/ <b>DO NOT SEND GLASS SLIDES</b> / ship ambient temperature in sealed container/ M-F/ 2-5 weeks
Direct microscopy	\$10.00	Swabs, fluids, tissues, or fresh feces/ <b>DO NOT SEND GLASS SLIDES</b> / ship with ice pack/ M-F/ 1 day
Fecal occult blood	\$11.00	Fresh feces or intestinal contents/ ship with ice pack/ M-F/ 1 day
Fungal culture	\$30.00	Swabs in transport media, fluids in sterile tubes, tissues in sterile bags/ ship with ice pack/ scheduled when received/ 2-3 weeks
Listeria culture	\$24.00	Brainstem (preferred tissue), tissues in sterile bags, swabs in transport media, fluids in sterile tubes/ ship with ice pack/ M-F/ 4-7 days
Mycoplasma culture	\$20.00	Swabs in transport media, fluids in sterile tubes, tissues in sterile bags/ ship with ice pack/ M-F/ 3-10 days
Salmonella culture	\$20.00	Fresh feces, intestinal contents, tissue, suspect-positive isolates to NVSL for typing/ ship with ice pack/ M-F/ 4-7 days
<i>Salmonella</i> Enteritidis culture – confirmatory	\$28.00	Poultry house drag samples, eggs/ <b>SHIP WITH ICE PACK - OVERNIGHT SHIPPING IS MANDATORY</b> / see <a href="http://www.liv.mt.gov">www.liv.mt.gov</a> for submission instructions and forms/ M-F/ 4-7 days
<i>Tritrichomonas foetus</i> culture – bovine	\$7.00	Preputial wash, vaginal fluid, uterine discharge, fetal abomasal fluid in InPouch™ TF Bovine/ <b>SHIP WITH HOT PACK IN COLD WEATHER - DO NOT REFRIGERATE OR FREEZE</b> / M-F/ 5-7 days





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CLINICAL MICROBIOLOGY		
PARASITOLOGY		
REQUEST	FEE	SAMPLE GUIDANCE/ EST. SCHEDULE/ EST. TURNAROUND TIME
Cryptosporidia exam	\$10.00	Minimum 1 gram (~1 teaspoon) fresh feces/ M-F/ 1-3 days
<i>Dirofilaria immitis</i> (canine heartworm) – canine, feline enzyme-linked immunosorbent assay (ELISA)	\$12.00	Minimum 1 ml (1cc) serum, whole blood or plasma in red or lavender top EDTA vacutainer tube/ M,W,F/ 1-2 days
<i>Dirofilaria immitis</i> (canine heartworm) – canine, feline microfilaria (Knott's)	\$12.00	Minimum 1 ml (1cc) whole blood in lavender top EDTA vacutainer tube/ M,W,F/ 1-2 days
Fecal flotation	\$15.00	Minimum 3 grams (~1 tablespoon) fresh feces/ package in wide-mouth container or double bag/ ship with ice pack/ M-F/ 1-2 days
Giardia enzyme-linked immunosorbent assay (ELISA)	\$34.00	Minimum 1 gram (~1 teaspoon) fresh feces/ package in wide-mouth container or double bag/ ship with ice pack/ M-F/ 1-3 days
Liver fluke sedimentation	\$30.00	Minimum 2 g fresh feces/ 1-3 days
Parasite or arthropod identification	\$28.00	Whole parasite, fresh or formalin fixed/ package in plastic leak-proof container/ M-F/ 1-7 days
Trichinella pepsin degradation	\$84.00	2x2 inch section of fresh, frozen, or salted tongue or diaphragm/ scheduled when received/ 1-3 days

## MILK TESTING

PLEASE CALL TO PRE-ARRANGE DIAGNOSTIC SUBMISSIONS WITH MILK LAB STAFF PRIOR TO SHIPPING.

A COMPLETED MILK PROGRAM OR SINGLE ANIMAL SUBMISSION FORM IS REQUIRED WITH SUBMISSION.

## COMPONENT, MICROBIAL AND ANTIBIOTIC RESIDUE

REQUEST	FEE	SAMPLE GUIDANCE/ EST. SCHEDULE/ EST. TURNAROUND TIME
Aerobic plate count	\$8.00	Minimum 100 ml milk/ ship refrigerated or with ice pack/ M-W/ 2-4 days
Antibiotic residue	\$25.00	Minimum 100 ml milk ship refrigerated or with ice pack/ M-F/ 1 day
Brucella ring test	\$8.00	Minimum 100 ml milk/ ship refrigerated or with ice pack/ scheduled when received/ 1 day
Coliform plate count	\$10.00	Minimum 100 ml milk or water/ ship refrigerated or with ice pack/ M-W/ 1-4 days
Component (includes butterfat, SNF, TS, lactose, protein)	\$5.00	Minimum 100 ml milk/ ship refrigerated or with ice pack/ M-F/ 1 day
Gerber butterfat	\$5.00	Minimum 100 ml fluid dairy product, yogurt/ ship refrigerated or with ice pack/ M-F/ 1 day
Majonnier butterfat	\$15.00	Minimum 100 g cheese/ ship refrigerated or with ice pack/ M-F/ 1 day
Phosphatase	\$8.00	Minimum 100 ml milk/ ship refrigerated or with ice pack/ M-F/ 1 day
Somatic cell count – direct	\$7.50	Minimum 100 ml milk/ ship refrigerated or with ice pack/ M-F/ 1 day
Somatic cell count – electronic	\$4.00	Minimum 100 ml milk/ ship refrigerated or with ice pack/ M-F/ 1 day
Yeast/ mold	\$8.00	Minimum 100 ml milk/ ship with ice pack/ M-W/ 5 days



# Montana Veterinary Diagnostic Laboratory Submission Guide & Fee Schedule

## MOLECULAR DIAGNOSTICS

*TRITRICHOMONAS FOETUS* AND *SALMONELLA* ENTERITIDIS TESTING: INCUBATION OF SAMPLES REQUIRED UPON LABORATORY RECEIPT.

A COMPLETED SINGLE ANIMAL, MULTIPLE ANIMAL, SURVEILLANCE PROGRAM, OR REGULATORY-APPROVED SUBMISSION FORM IS REQUIRED WITH SUBMISSION (SEE WEBSITE).

## POLYMERASE CHAIN REACTION (PCR)

REQUEST	FEE	SAMPLE GUIDANCE/ EST. SCHEDULE/ EST. TURNAROUND TIME
Avian influenza (AI) virus	\$40.00	PLEASE CONTACT LABORATORY PRIOR TO SUBMISSION/ scheduled when received/ 1-5 days
Avian paramyxovirus (APMV) (virulent Newcastle disease)	\$40.00	PLEASE CONTACT LABORATORY PRIOR TO SUBMISSION/ scheduled when received/ 1-5 days
Bovine coronavirus/ Rotavirus multiplex	\$45.00	Minimum 1 gram (~1 tablespoon) fresh feces or dry dacron or polyester swab with or without transport media/ M-F/ 1-5 days
Bovine viral diarrhea (BVD) virus – individual sample	\$40.00	Ear notch tissue/ M-F/ 1-5 days
Bovine viral diarrhea (BVD) virus – MVDL-pooled	\$65.00	Ear notch tissue/ up to 24 ear notch samples pooled on-site at MVDL/ M-F/ 1-5 days
Classical swine fever (CSF) virus/ African swine fever (ASF) virus	\$40.00 each	PLEASE CONTACT LABORATORY PRIOR TO SUBMISSION/ scheduled when received/ 1-5 days
<i>Escherichia coli</i> - K99	\$40.00	Minimum 1 gram (~1 tablespoon) fresh feces/ M-F/ 1-5 days
Foot and mouth disease (FMD) virus	\$40.00	PLEASE CONTACT LABORATORY PRIOR TO SUBMISSION/ scheduled when received/ 1-5 days
<i>Mycobacterium avium paratuberculosis</i> (MAP) – individual sample (Johne's)	\$36.00	Minimum 1 gram (~1 tablespoon) fresh feces/ ship with ice pack/ M-F/ 1-5 days
<i>Mycobacterium avium paratuberculosis</i> (MAP) – MVDL-pooled (Johne's)	\$42.00	Fresh feces/ up to 5 fecal samples pooled on-site at MVDL/ M-F/ 1-5 days
<i>Salmonella</i> Enteritidis (SE)	\$36.00	Environmental swabs/ please see our website for SE submission form/ T,Th/ 1-5 days
Swine influenza (SI) virus	\$40.00	Please contact laboratory prior to submission/ scheduled when received/ 1-5 days
<i>Tritrichomonas foetus</i> – bovine – individual sample	\$30.00	Preputial wash or vaginal fluid in InPouch™ TF Bovine or TF™ Transit Tube/ SHIP DRY OR WITH HOT PACK IN COLD WEATHER - DO NOT REFRIGERATE OR FREEZE/ M,W,F/ 1-5 days
<i>Tritrichomonas foetus</i> (Tf) – bovine – MVDL-pooled	\$55.00	Preputial wash or vaginal fluid in InPouch™ TF Bovine or TF™ Transit Tube/ up to 5 samples pooled on-site at MVDL/ ship dry or with hot pack in cold weather/ DO NOT REFRIGERATE OR FREEZE/ M,W,F/ 1-5 days
Vesicular stomatitis (VS) virus	\$40.00	PLEASE CONTACT LABORATORY PRIOR TO SUBMISSION/ scheduled when received/ 1-5 days



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## IMMUNODIAGNOSTICS

BLOOD TUBES MUST BE UNIQUELY IDENTIFIED.

SHIP WITH ICE-PACK – **DO NOT FREEZE** – SENDING SPUN-DOWN SERUM IS RECOMMENDED DURING EXTREME WEATHER CONDITIONS.

A COMPLETED SINGLE ANIMAL, MULTIPLE ANIMAL, SURVEILLANCE PROGRAM, OR REGULATORY-APPROVED SUBMISSION FORM IS REQUIRED WITH SUBMISSION (SEE WEBSITE).

## LARGE ANIMAL SEROLOGY AND VIROLOGY

REQUEST	FEE	SAMPLE GUIDANCE/ EST. SCHEDULE/ EST. TURNAROUND TIME
Anaplasmosis competitive enzyme-linked immunosorbent assay (cELISA)	\$ 10.00	Minimum 1 ml serum (preferred) or clotted blood in red or tiger top vacutainer tube/ Th, F/ 2-4 days
Avian Influenza (AI) virus agar gel immunodiffusion (AGID)	\$8.00	Minimum 1 ml serum (preferred) or clotted blood in red or tiger top vacutainer tube/ M-Th/ 2-4 days
Bluetongue (BT) virus competitive enzyme-linked immunosorbent assay (cELISA)	\$10.00	Minimum 1 ml serum (preferred) or clotted blood in red or tiger top vacutainer tube/ W, Th, F/ 2-4 days
Bovine coronavirus (BCV) fluorescent antibody (FA)	\$11.00	Minimum 1 g tissue/ scheduled when received/ 1-5 days
Bovine herpesvirus (BHV)-1 fluorescent antibody (FA)	\$11.00	Minimum 1 g tissue/ scheduled when received/ 1-5 days
Bovine herpesvirus (BHV)-1 serum neutralization (SN)	\$9.00	Minimum 1 ml serum in red top vacutainer tube/ F/ 3 days
Bovine leukemia virus (BLV) agar gel immunodiffusion (AGID)	\$10.00	Minimum 1 ml serum/ T/ 2 days
Bovine leukemia virus (BLV) enzyme-linked immunosorbent assay (ELISA)	\$8.00	Minimum 1 ml serum/ M,Th/ 1-2 days
Bovine respiratory syncytial virus (BRSV) fluorescent antibody (FA)	\$11.00	Minimum 1 g tissue/ scheduled when received/ 1-5 days
Bovine respiratory syncytial virus (BRSV) serum neutralization (SN)	\$10.00	Minimum 1 ml serum/ T/ 6 days
Bovine viral diarrhea (BVD) virus enzyme-linked immunosorbent assay (ELISA)	\$6.00	Minimum 1 ml serum or ½" ear notch tissue/ M,Th/ 1-2 days
Bovine viral diarrhea (BVD) virus fluorescent antibody (FA)	\$11.00	Minimum 1 ml whole blood or serum or 1 g tissue/ scheduled when received/ 1-5 days
Bovine viral diarrhea (BVD) virus type I, II serum neutralization (SN)	\$18.00	Minimum 1 ml serum/ W/ 5 days
<i>Brucella abortus</i> buffered acidified plate antigen/ buffered plate agglutination (BAPA/ BPA)	\$2.50	Minimum 1 ml serum (preferred) or clotted blood in red or tiger top vacutainer tube / M-F/ 1-2 days
<i>Brucella abortus</i> card (Rose Bengal)	\$2.50	Minimum 1 ml serum (preferred) or clotted blood in red or tiger top vacutainer tube / M-F/ 1-2 days
<i>Brucella abortus</i> complement fixation (CF)	\$3.50	Minimum 1 ml serum (preferred) or clotted blood in red or tiger top vacutainer tube/W or Th/ 2-4 days
<i>Brucella abortus</i> fluorescence polarization assay (FPA) – tube or microplate	\$3.50	Minimum 1 ml serum (preferred) or clotted blood in red or tiger top vacutainer tube/ M-F/ 2-5 days
<i>Brucella abortus</i> rivanol	\$3.50	Minimum 1 ml serum (preferred) or clotted blood in red or tiger top vacutainer tube/ M-F/ 1-2 days
<i>Brucella abortus</i> standard plate agglutination test (SPT)	\$3.50	Minimum 1 ml serum (preferred) or clotted blood in red or tiger top vacutainer tube/ M-F/ 1-2 days
<i>Brucella abortus</i> standard tube agglutination test (STT)	\$3.50	Minimum 1 ml serum (preferred) or clotted blood in red or tiger top vacutainer tube/ M, T, W/ 2-4 days



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IMMUNODIAGNOSTICS		
LARGE ANIMAL SEROLOGY AND VIROLOGY (CONTINUED)		
REQUEST	FEE	SAMPLE GUIDANCE/ EST. SCHEDULE/ EST. TURNAROUND TIME
<i>Brucella ovis</i> enzyme-linked immunosorbent assay enzyme-linked immunosorbent assay (ELISA)	\$9.00	Minimum 1 ml serum (preferred) or clotted blood in red or tiger top vacutainer tube/ M/ 1-2 days
Caprine arthritis encephalitis (CAE) competitive enzyme-linked immunosorbent assay (cELISA)	\$9.00	Minimum 1 ml serum (preferred) or clotted blood in red or tiger top vacutainer tube/ M-Th/ 2-4 days
Equine herpesvirus (EHV) fluorescent antibody (FA)	\$11.00	Minimum 1 g tissue/ scheduled when received/ 1-5 days
Equine infectious anemia (EIA) agar gel immunodiffusion (AGID) – individual sample	\$10.00	Minimum 1 ml serum (preferred) or clotted blood in red or tiger top vacutainer tube/ M-F/ 2-4 days
Equine infectious anemia (EIA) competitive enzyme-linked immunosorbent assay (cELISA) – individual sample	\$14.00	Minimum 1 ml serum (preferred) or clotted blood in red or tiger top vacutainer tube/ M-F/ 1-2 days
Equine infectious anemia (EIA) Global Vet Link surcharge – per animal	\$2.00	Minimum 1 ml serum (preferred) or clotted blood in red or tiger top vacutainer tube/ M-F/ 2-4 days
Leptospira fluorescent antibody fluorescent antibody (FA)	\$11.00	Minimum 1 ml urine/ scheduled when received/ 1-5 days
Leptospira microagglutination (MAT) – <i>L. canicola</i> , <i>L. grippo</i> , <i>L. hardjo</i> , <i>L. ictero</i> , <i>L. pomona</i> (routine)	\$15.00	Minimum 1 ml serum in red top vacutainer tube/ Th/ 1-2 days
Leptospira microagglutination (MAT) – <i>L. autumnalis</i> , <i>L. bratislava</i> – per serovar	\$3.00	Minimum 1 ml serum in red top vacutainer tube/ Th/ 1-2 days
<i>Mycobacterium avium paratuberculosis</i> (MAP) enzyme-linked immunosorbent assay (ELISA)	\$9.00	Minimum 1 ml serum (preferred) or clotted blood in red or tiger top vacutainer tube/ W-F/ 2-4 days
<i>Neospora caninum</i> competitive enzyme-linked immunosorbent assay (cELISA)	\$8.00	Minimum 1 ml serum (preferred) or clotted blood in red or tiger top vacutainer tube/ M-F/ 2-4 days
Ovine progressive pneumonia (OPP) competitive enzyme-linked immunosorbent assay (cELISA)	\$8.00	Minimum 1 ml serum (preferred) or clotted blood in red or tiger top vacutainer tube/ M-Th/ 2-4 days
Parainfluenza virus type 3 (PI3) hemagglutination inhibition (HAI)	\$7.00	Minimum 1 ml serum in red top vacutainer tube/ Th/ 2 days
Parainfluenza virus type 3 (PI3) fluorescent antibody (FA)	\$11.00	Minimum 1 g tissue/ scheduled when received/ 1-5 days
Porcine parvovirus (PPV) fluorescent antibody (FA)	\$11.00	Minimum 1 g tissue/ scheduled when received/ 1-5 days
Pseudorabies gB enzyme-linked immunosorbent assay (ELISA)	\$7.50	Minimum 1 ml serum in red top vacutainer tube/ T/ 2 days
<i>Salmonella pullorum</i> microagglutination (MAT)	\$6.50	Minimum 1 ml serum (preferred) or clotted blood in red or tiger top vacutainer tube/ M-Th/ 5-7 days
Vesicular stomatitis (VS) complement fixation (CF)	\$55.00	Minimum 1 ml serum (preferred) or clotted blood in red or tiger top vacutainer tube/ scheduled when received/ 2-4 days
Vesicular stomatitis (VS) NJ & Ind serum neutralization (SN)	\$18.00	Minimum 1 ml serum in red top vacutainer tube/ Tu,F/ 2-3 days
Virus isolation – livestock only	\$34.00	Minimum 1 ml serum or whole blood/ F/ 3 weeks
West Nile virus (WNV) IgM enzyme-linked immunosorbent assay (ELISA)	\$26.00	Minimum 1 ml serum in red top vacutainer tube/ scheduled when received/ 5 days



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IMMUNODIAGNOSTICS		
SMALL ANIMAL SEROLOGY AND VIROLOGY		
REQUEST	FEE	SAMPLE GUIDANCE/ EST. SCHEDULE/ EST. TURNAROUND TIME
<i>Brucella canis</i> rapid slide agglutination (RSAT) screen, 2-mercaptoethanol-rapid agglutination test (2-ME-TAT) confirmation	\$26.00	Minimum 1 ml serum (preferred) or clotted blood in red or tiger top vacutainer tube/ <b>SHIP WITH ICE PACK - DO NOT FREEZE</b> / scheduled when received/ 1-2 days
Canine distemper virus (CDV) fluorescent antibody (FA)	\$11.00	Minimum 1 g tissue/ scheduled when received/ 1-5 days
Canine parvovirus (CPV) SNAP™	\$30.00	Minimum 0.5 ml fresh feces/ M-F/ 1 day
Canine parvovirus (CPV) fluorescent antibody (FA)	\$11.00	Minimum 1 g tissue/ scheduled when received/ 1-5 days
Feline herpesvirus (FHV) fluorescent antibody (FA)	\$11.00	Minimum 1 g tissue/ scheduled when received/ 1-5 days
Feline infectious peritonitis (FIP) enzyme-linked immunosorbent assay (ELISA)	\$35.00	Minimum 0.5 ml serum or heparinized plasma/ M-F/ 1 day
Feline infectious peritonitis (FIP) fluorescent antibody (FA)	\$11.00	Minimum 1 g tissue/ scheduled when received/ 1-5 days
Feline leukemia virus (FeLV) SNAP™	\$24.00	Minimum 0.5 ml serum or heparinized plasma/ M-F/ 1 day
Feline leukemia/ feline immunodeficiency virus/ heartworm (FeLV / FIV) SNAP™	\$32.00	Minimum 0.5 ml serum or heparinized plasma/ M-F/ 1 day
Feline panleukopenia virus (FPLV) fluorescent antibody (FA)	\$11.00	Minimum 1 ml serum or 1 g tissue/ scheduled when received/ 1-5 days

