



## GENERAL INFORMATION

**Veterinary Diagnostic Laboratory  
#1 Natural Resources Drive  
Little Rock, AR 72205  
501-823-1730**

[Map of west Little Rock showing the location of the lab.](#)

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**Laboratory Hours** are from 8:00 am to 4:30 pm Monday - Friday.

The lab is closed for the following holidays: New Year's Day, Martin Luther King Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day (and usually the day after), Christmas Eve, and Christmas Day.

*(If a holiday falls on Saturday, the Friday before will be observed. If a holiday falls on a Sunday, the following Monday will be observed.)*

### **Submissions**

All submissions must be accompanied by a [submission form](#). A hardcopy of this form is also available at the front desk (receiving area) of the laboratory, and in the red box on the loading dock.

***The submission form represents a contract between you and the laboratory. It must be filled out completely, legibly, and accurately. By filling out a submission form and submitting it to the lab, you represent that (i) you are authorized***



***to enter into an agreement to have the designated services performed, (ii) you are the owner of the specimens submitted, or an authorized agent of the owner, and (iii) you will pay for the services rendered.***

***Submissions for regulatory testing must be 100% complete and accurate. The laboratory will not correct mistakes or omissions on submission paperwork without prior written approval from the Arkansas State Veterinarian.***

Please make sure each specimen, tube, etc. is labeled with sufficient information - such as submitter (veterinarian/clinic), owner, plus animal ID - to ensure the sample is uniquely identified and can be unmistakably matched to its corresponding submission form.

### **After-hours and Weekend Assistance**

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Samples and small carcasses can be left in the refrigerator on the loading dock after hours. This refrigerator is offered as a convenience to the public and **is not secure**.

**Samples left in the dock refrigerator do not enter into the custody of the laboratory until they are retrieved by laboratory personnel during regular working hours.**

*If you require secure sample submission after hours, please contact Eagle Courier, which has access to secure storage in the lab proper.*

A laboratory representative is on-call and can be reached by phone at 501-773-2456.

### **Courier Service** for samples and small carcasses

Courier service is available in most areas of the state. Call Eagle Courier at 501-438-9894 for information. Eagle is on the web at [www.eagleurgent.com](http://www.eagleurgent.com).

### **On-line Laboratory Results and Invoices**

Your results can be accessed on the web via [WebSuite](#).

Contact the lab office to obtain a User Name and Password.

**Animals for Export** to other states or countries:

Live animals for export must have samples submitted at least 10 days prior to export.

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- **Brains and small heads** may be submitted directly to the Arkansas Dept. of Health, 4815 W. Markham Street, Little Rock, AR 72205. Contact the Dept. of Health for shipment information (501-661-2840).
- **Large heads** (cattle, horses, etc.) can be submitted to the Diagnostic Lab for brain removal. A courier fee will be charged for transport of the brain to the Dept. of Health.
- If an **entire carcass** is sent, rather than a head, a carcass disposal fee or necropsy fee will apply.

***Brain tissue submitted for rabies testing must be fresh and intact.***

Severely decomposed and/or macerated / traumatized tissue may give inconclusive results and in many cases cannot be adequately tested.



## Changes this Version

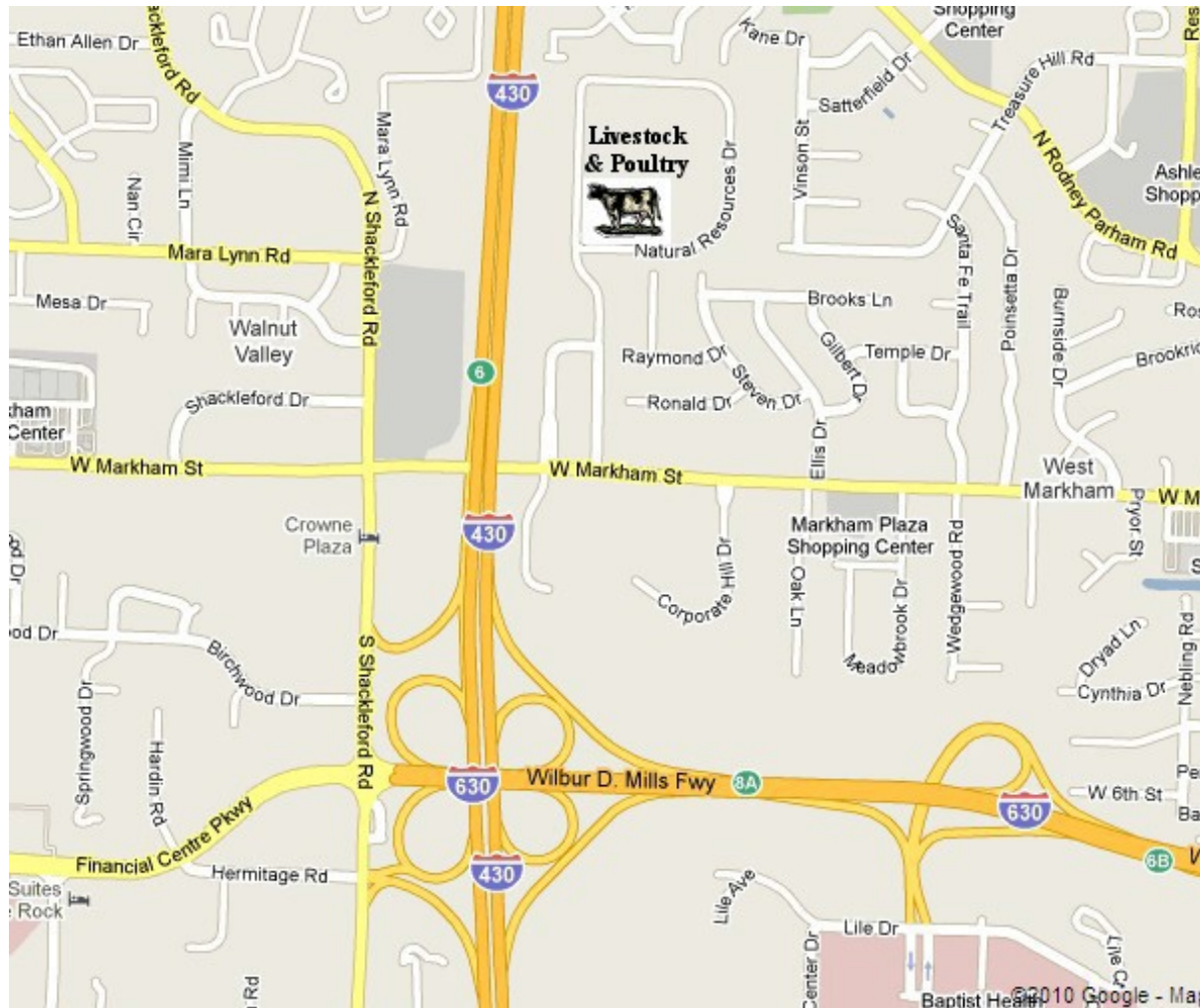
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- The fee for a small animal necropsy was changed from a flat rate of \$70.00 to a base fee of \$70.00 plus fees for those ancillary tests (i) ordered by the submitter, (ii) added by the referring veterinarian, or (iii) deemed medically necessary by laboratory personnel as part of the differential diagnostic process.
- All references to the cytology service (discontinued) were removed.
- Target turn-around times listed for all procedures. Target turn-around times are based on **working days** and may be adversely impacted by personnel shortages, instrument malfunctions, and market disruptions of critical supplies. Target turn-around times are for routine case submissions and do not apply for research projects or similar exploratory procedures. Screening tests requiring confirmation at other laboratories will have commensurately longer and more variable turn-around times.
- The following tests were removed from the Analytical Chemistry (Toxicology) section:
  - Anticoagulant Rodenticides
  - Arsenic in Whole blood and Urine
- The IDEXX SNAP\* Foal IgG test for detecting immunoglobulin G (IgG) in equine serum is available by advance notification only. This test is scheduled for discontinuation due to underutilization.



Map of west Little Rock showing location of the lab.

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PATHOLOGY			<a href="#">Table of Contents</a>
Test Name	Test Details	Fee	Turn-around Time
Livestock Necropsy <b>Please call before bringing in a large animal.</b>	> 1500 lb.	225.00	4 – 6 weeks
	1201 - 1500 lb.	200.00	4 – 6 weeks
	901 - 1200 lb.	175.00	4 – 6 weeks
	501 - 900 lb.	150.00	4 – 6 weeks
	100 - 500	90.00	4 – 6 weeks
	<100 lb.	70.00 (20.00 each add'l)	4 – 6 weeks
	Spinal cord removal	40.00	4 – 6 weeks
	Livestock abortion (fetus & placenta)	90.00	4 – 6 weeks
Equine Necropsy <b>Please call before bringing in a large animal.</b>	> 1200 lb.	275.00	4 – 6 weeks
	801 -1200 lb.	250.00	4 – 6 weeks
	401 - 800 lb.	225.00	4 – 6 weeks
	201 - 400 lb.	200.00	4 – 6 weeks
	< 200 lb.	175.00	4 – 6 weeks
	Spinal cord removal	40.00	
Small Animal Necropsy <i>Pet birds included and small exotic animals</i>	Necropsy	70.00 + <b>ancillary test fees</b>	4 – 6 weeks
	Spinal cord removal	25.00	
	Neonate (1-3 animals)	70.00 (15.00 each add'l)	4 – 6 weeks
Rabies submission	Done at Health Department	Disposal fee plus courier	Typically 2-4 days
Poultry Necropsy	Chicks/poults (1-12 birds/submission)	60.00 (2.00 each add'l)	4 – 6 weeks
	<15 lb. (1-8 birds/submission)	60.00 (4.00 each add'l)	4 – 6 weeks
	>15 lb. (1-4 birds/submission)	60.00 (7.50 each add'l)	4 – 6 weeks
	Ratites (adult)	70.00	4 – 6 weeks
Poultry Culture Setup	Per flock of up to 6/12 chicks	10.00/15.00	
After Hours or Unscheduled Large Animal	After hours or large animal without notice	40.00	n/a
	>1200 lb.	400.00	n/a



PATHOLOGY			
Carcass Disposal <b>Please call before bringing a large animal.</b>	501 - 1200 lb. (per animal)	300.00	n/a
	201 - 500 lb. (per animal)	250.00	n/a
	101 - 200 lb. (per animal)	25.00	n/a
	<100 lb. (per animal)	15.00	n/a
Immunohistochemistry (IHC) <i>Feline and Canine Only</i>	T and B cells (formalin fixed tissue)	50.00	2 weeks
	Cytokeratin and Vimentin (formalin fixed tissue)	50.00	2 weeks
	Call for availability and pricing of other IHC tests		
Histopathology	H&E slide with diagnosis	38.00 first site 6.00 each additional site	3 -5 days
	Necropsy tissues (up to 5)	38.00 6.00 each extra slide	3 - 5 days
	Special stains by request	7.00 each	3 - 5 days
	Slide preparation only; returned to submitter for analysis	7.00 each slide	3 - 5 days
	Histology Slide Recut	6.00 /slide	3 - 5 days

**Cosmetic necropsy:** We do not offer cosmetic necropsies as a service.

**Pet Remains:** Due to public health and safety concerns, we do not return animal remains to the owner. We do allow cremation service companies to pick up animals for private cremations. NOTE: A *Pet Loss Form* is required for ALPC-VDL to hold pet remains for private cremation. The [Pet Loss Form](#) is available at the front desk (receiving area) of the laboratory and in the red box on the loading dock. Please complete all relevant information on the form. Please contact the laboratory at 501-823-1730 for additional cremation service information.

**Necropsy:** The animal should be submitted in a fresh state and as soon possible after death to increase the chances of reaching a meaningful diagnosis. Keep the carcass refrigerated, **but not frozen**. Freezing causes microscopic artifacts that may interfere with diagnostic evaluation. If the animal shows signs of decomposition or has been frozen, please call the lab for further consultation. Severe decomposition or freeze artifact may hamper or prevent meaningful diagnostic evaluation.

**Histopathology:** For adequate tissue fixation, the required ratio of preservative to tissue is 10:1. The recommended preservative is 10% neutral-





buffered formalin. Results from specimens that require additional fixation with alcoholic formalin or that require decalcification will be delayed and may take as long as 7-14 calendar days to process.

**Alcoholic Formalin Delays:** Tissues with a high fat content or that have a soft, delicate texture may not fix completely in buffered formalin. These incompletely fixed tissues will not cut properly on the microtome and will require additional fixation in alcoholic formalin. Alcoholic formalin denatures lipid and firms the tissue, allowing proper sectioning of the tissue into diagnostically meaningful slides. This process may take as long as 7-14 days to complete and can be expected to cause a delay in the reporting of results.

**Skin lesions:** When submitting multiple skin or subcutaneous lesions from the same animal, it is preferable to submit the individual lesions in separately labeled containers. ***If multiple lesions are placed in a single container without suitable tagging or labeling, then distinct identification of the individual lesions and their corresponding locations cannot be accurately determined and will not be provided with the report.*** If multiple lesions are placed in a single container and individual lesion identification is desired, then it is imperative that the individual specimens are distinctly labeled and that descriptions of the individual lesions and their corresponding labels are provided with the submission form. Punch biopsies representing a generalized condition can be submitted in a single container without suture tags or labels.

BACTERIOLOGY			<a href="#">Table of Contents</a>
Test Name/Organism of Interest	Test Details	Test Fee	Turnaround Times
Aerobic culture	<ul style="list-style-type: none"> <li>Swab, feces, tissue, urine, or other body fluids</li> <li>Send in aerobic culturette or sterile container</li> </ul>	22.00/specimen	2-3* days
Anaerobic culture	<ul style="list-style-type: none"> <li>Tissue or body fluid</li> <li>Specimens from anaerobic sites</li> </ul>	35.00/specimen	3-5* days
Antibiotic sensitivity	<ul style="list-style-type: none"> <li>Performed on in-house cultured aerobic bacterial isolates</li> </ul>	12.50/isolate	3-4* days
Fecal Panel	<ul style="list-style-type: none"> <li>Includes: Aerobic Culture, Salmonella Screen, Campylobacter Isolation tests</li> </ul>	37.00/specimen	3-5* days
Salmonella Screen	<ul style="list-style-type: none"> <li>Salmonella Screen only</li> </ul>	10.00/specimen	Clinical- 2-5* days Environmental (NPIP)- 5-10 days
	<ul style="list-style-type: none"> <li>Salmonella O-antigen serogrouping</li> </ul>	Clinical: 5.00/isolate Environmental (NPIP): 15.00/specimen	Clinical: 3-5* days Environmental (NPIP): 5-15 days
	<ul style="list-style-type: none"> <li>Salmonella Serotyping (send-out)</li> </ul>	Call lab for pricing	Send-out test
Campylobacter isolation	<ul style="list-style-type: none"> <li>Feces, intestinal swab</li> </ul>	14.00/specimen	3-5* days



<p><i>Clostridium</i> spp. <i>C. chauvoei</i> <i>C. novyi</i> <i>C. septicum</i> <i>C. sordellii</i></p>	<ul style="list-style-type: none"> <li>• Fluorescent antibody (FA)</li> <li>• Muscle or heart</li> <li>• Black leg</li> </ul>	<p>15.00/specimen</p>	<p>2-4 days</p>
<p><i>Pasteurella multocida</i></p>	<ul style="list-style-type: none"> <li>• <i>P. multocida</i> Serotyping (send-out)</li> </ul>	<p>Call lab for pricing</p>	<p>Send-out test</p>
	<ul style="list-style-type: none"> <li>• PCR (swabs, tissues or bacterial cultures)</li> </ul>	<p>25.00/specimen</p>	<p>1-3 days</p>
<p><i>Leptospira</i> spp. <i>L. icterohaemorrhagiae</i> <i>L. canicola</i> <i>L. pomona</i> <i>L. hardjo</i> <i>L. bratislava</i> <i>L. grippotyphosa</i> <i>L. autumnalis</i></p>	<ul style="list-style-type: none"> <li>• Microscopic Agglutination Test (MAT) on serum ONLY</li> <li>• Performed on Tuesdays</li> </ul>	<p>18.00 /specimen (1-10) 6.00 /specimen (&gt;10)</p>	<p>1-2 weeks</p>
	<ul style="list-style-type: none"> <li>• PCR on urine or kidney</li> </ul>	<p>25.00/specimen</p>	<p>1-3 days</p>
<p>*TAT are listed for routine specimens and routinely isolated bacteria. Turnaround times may vary dependent upon unforeseen variables such as: densely mixed cultures, fastidious/slow-growing bacteria, culture enrichment procedures, additional testing methods, confirmatory testing performed at reference laboratory, etc. If you have any questions about the status of a case, please give us a call at <b>501-823-1730</b> and ask to speak with a representative of the Bacteriology section.</p>			

**Urine or other fluids for culture** should never be sent in culturette swab containers because they leak and the sample can become contaminated, compromising the accuracy of the results. Send the fluid in a leak-proof container such as a red-top tube. Do not collect samples in purple top tubes.

**Swabs** should be placed in sterile transport media (aerobic and/or anaerobic media).

**Tissues** should be packaged separately from each other in leak-proof, sterile containers and accompanied by an ice-pack.

**Fecal** samples should be submitted in Cary Blair transport medium. This medium can be purchased through scientific supply houses, such as Fisher Scientific or VWR. (NOTE: Use of supply house names - as examples - does not imply endorsement or preference by ALPC.)

**Milk** samples should be submitted in sterile, screw-top containers wrapped with Parafilm to prevent leakage.



MYCOLOGY			<a href="#">Table of Contents</a>
Test Name/Organism of Interest	Test Details	Test Fee	Turnaround Times (TAT)
Dermatophyte culture	<ul style="list-style-type: none"> <li>Isolation and identification of dermatophytes</li> <li>Hair, skin swabs, skin scrapings, etc.</li> </ul>	12.00 /specimen	15-30 days
Culture for systemic fungi	<ul style="list-style-type: none"> <li>Fresh tissues, swabs, fluids, etc.</li> <li>Send-out test</li> </ul>	Call lab for pricing	Send-out test
Aspergillosis Serology	<ul style="list-style-type: none"> <li>Serum AGID (1 cc)</li> </ul>	12.00	Next business day
Blastomycosis Serology	<ul style="list-style-type: none"> <li>Serum AGID (1 cc)</li> </ul>	12.00	Next business day
Coccidioides Serology	<ul style="list-style-type: none"> <li>Serum AGID (1 cc)</li> </ul>	12.00	Next business day
Histoplasmosis Serology	<ul style="list-style-type: none"> <li>Serum AGID (1 cc)</li> </ul>	12.00	Next business day
Fungal Serology Profile	<ul style="list-style-type: none"> <li>Serum AGID for Aspergillosis, Blastomycosis, Coccidioides, &amp; Histoplasmosis (1 cc)</li> </ul>	45.00	Next business day

**Fungal serology:** False negative results occur with *Blastomyces* and, less commonly, with *Histoplasma* infections.

**Hair, scabs, or skin scrapings** for mycology should be sent in dry, sterile containers.

### VIROLOGY & SEROLOGY

(1) Marked tests are discounted 40% off the regular fee for samples beyond the first 10 when the samples are received together and from the same owner.  
 Qualtrax ID: 18467 Publication Date: February 20, 2019

(2) Results for these tests may be delayed. Because these tests are run infrequently, the reagents are not always in stock at ALPC. Reagents may need to be ordered prior to running these tests.



<b>VIROLOGY AND SEROLOGY*</b>		<a href="#">Table of Contents</a>		<b>Turn-around Time</b>
<b>RUMINANTS</b>	<b>Test Details</b>	<b>Sample</b>	<b>Fee</b>	
<i>Anaplasma</i>	ELISA; <i>Performed on Mondays only.</i> Price break if >10 samples per submission	Serum, 1 cc	6.00 (1 – 10) 3.00 (11+)	Results out Monday afternoon
<i>Anaplasma/Ehrlichia spp</i> NOTE: Does NOT detect <i>A. ovis</i> or <i>A. bovis</i>	PCR	<i>preferred:</i> whole blood (EDTA) or spleen	25.00	1--3
Bluetongue	AGID <sup>(1)</sup>	Serum, 1 cc	*9.00 <sup>(1)</sup>	Next business day
	PCR	Whole blood or infected tissue(s)	30.00	1-3
Bovine Abortion Panel (federal Brucellosis chart needed)	IBR, BVD, <i>Leptospira</i> , <i>Neospora</i> Brucellosis <i>See individual tests for day(s) the tests are performed.</i>	Serum (paired best), 1 cc	35.00	1-2 weeks
Bovine Coronavirus	PCR	Feces (2 ml or 2 g), bowel, lung, nasal swab, infected tissue	30.00	1-3
Bovine Leukemia Virus (BLV)	AGID <sup>(1)</sup>	Serum, 1 cc	8.00 <sup>(1)</sup>	Next business day
Bovine Respiratory Syncytial Virus	FA ( <i>perform on Friday, if received by noon of Friday</i> )	Lung, intestine	15.00	Report on Friday
Bovine Rotavirus	PCR	Feces (2 ml or 2 g), intestine	25.00	1-3
Bovine Pregnancy (Run on Mondays only)	ELISA ( <i>as early as 28 days post breeding or ≥ 60 days post calving</i> )	Serum, 1 cc	1-4 \$20.00 5-10 \$ 5.00 11+ \$ 3.00	Results out Monday afternoon



<b>VIROLOGY AND SEROLOGY</b>				
<b>RUMINANTS</b>	<b>Test Details</b>	<b>Sample</b>	<b>Fee</b>	<b>Turn-around Time</b>
Bovine Viral Diarrhea (BVD)	Serum neutralization (SN) for type I <i>(perform on Friday, if received by 9AM of Friday )</i>	Paired serum	7.00	Test on Friday, Report on Monday
	SN for type II <i>(perform on Friday, if received by 9AM of Friday )</i>	Paired serum	7.00	Test on Friday, Report on Monday
	PCR (detects types I & II)	5 mL EDTA blood, suspect tissues, or nasal swab	30.00	1-3
BVD Persistently Infected <b>Please do NOT send ear notches in formalin</b>	SNAP (Please notify lab in advance before submit large amount samples (>20))	Ear notch (fresh tissue only), serum	5.50	1-2
Brucellosis	BAPA plate test (Federal chart required)	Serum, 1 cc	2.00	Same day(Cut off 3:30pm)*
Caprine Arthritis & Encephalitis	AGID <sup>(1)</sup>	Serum, 1 cc	8.00 <sup>(1)</sup>	Next business day
Caprine Herpesvirus –1	PCR	swab or tissue	25.00	1-3
Chlamydia	PCR	swab or tissue	25.00	1-3
Epizootic Hemorrhagic Disease	AGID	Serum, 1 cc	8.00	Next business day
	PCR	Blood, spleen, liver and other tissues	30.00	1-3



Foot and Mouth disease	PCR	vesicular tissue, swab (oral or lesion)	30.00	1-3
Infectious Bovine Rhinotracheitis (IBR)	PCR	nasal swab or suspect tissue(s)	25.00	1-3
	Serum neutralization <i>(perform on Friday, if received by 9AM of Friday )</i>	Paired serum	7.00	Test on Friday, Report on Monday
Johne's Disease	ELISA <i>(bovine only)</i> <i>(Performed on Mondays only)</i>	Serum, 1 cc	6.00 5.00 (2+)	Results out Monday afternoon
	PCR please notify lab in advance before submit large amount of samples	Feces (2 grams), intestine	25.00	1-3
<i>Leptospira icterohaemorrhagiae, canicola, pomona, hardjo, Bratislava, grippotyphosa, &amp; autumnalis</i>	MAT <i>(Performed on Tuesdays only)</i>	Serum	18.00 (1-10) 6.00 (11+)	1 – 2 weeks
	PCR	Urine, kidney	25.00	1-3
Malignant catarrhal fever	PCR	Whole blood, tissues, or swab(s)	25.00	1-3
<i>Mycoplasma</i> spp.	PCR	Tissue, swab, or fluid of any type	25.00	1-3
<i>Neospora caninum</i>	PCR	Brain of aborted fetus, heart, liver, kidney, suspect tissues	25.00	1-3
	ELISA <i>(bovine only)</i> <i>(Performed on Mondays only)</i>	Serum, 1 cc	12.00	Results out Monday afternoon
Ovine Progressive Pneumonia	AGID <sup>(1)</sup>	Serum, 1 cc	8.00 <sup>(1)</sup>	Next business day
Parainfluenza(PI3)	FA <i>(perform on Friday, if received by noon of Friday )</i>	Lung	15.00	Report on Friday

**\*Positives sent to NVSL for confirmation. TAT is 5-7 .**



<b>VIROLOGY AND SEROLOGY</b>				
<b>RUMINANTS</b>	<b>Test Details</b>	<b>Sample</b>	<b>Fee</b>	<b>Turn-around Time</b>
<i>Tritrichomonas foetus</i>	PCR (with 2-day culture)	preputial or vaginal wash sample shipped in a culture bag *Do NOT refrigerate*	25.00	1-4 days

**Serology samples:**

Serum samples submitted for serology testing should be removed from clot, free from hemolysis, and refrigerated during shipment. Please centrifuge all serum separator tubes before shipment.

<b>VIROLOGY AND SEROLOGY</b>				
<b>PORCINE</b>	<b>Test Details</b>	<b>Sample</b>	<b>Fee</b>	<b>Turn-around Time (days)</b>
African Swine Fever Virus	PCR	Whole blood, tonsil, spleen, lymph node	30.00	1-3
Brucellosis	Card Test (run on Mon. cutoff time = 12 noon)	Serum, 1 cc	n/c	Results out Monday afternoon*
Classical Swine Fever	PCR	Tonsil, tonsil craping, spleen, lymph node	30.00	1-3
Foot and Mouth disease	PCR	vesicular tissue, swab (oral or lesion)	30.00	1-3



<i>Leptospira icterohaemorrhagiae, canicola, pomona, hardjo, Bratislava, grippityphosa, &amp; autumnalis</i>	MAT (performed on Tuesdays)	serum	18.00 (1-10) 6.00 (11+)	1 – 2 weeks
	PCR	Urine, kidney	25.00	1-3
<i>Mycoplasma spp.</i>	PCR	swab, tissue or fluid of any kind	25.00	1-3
Porcine Epidemic Diarrhea Virus	PCR	Feces, fecal swab, environmental swab, intestine, or feed	30.00	1-3
Porcine Parvovirus	FA (perform on Friday, if received by noon of Friday )	Intestine	15.00	Report on Friday
Porcine Circovirus	PCR	Lung, suspected infected tissue	25.00	1-3
Porcine Reproductive & Respiratory Syndrome (PRRS)	PCR	Lung or infected tissue	30.00	1-3
Pseudorabies ( Includes Porcine Brucellosis )	g1 ELISA <sup>(1)</sup> (Run on Mondays only) (Requires federal chart)	Serum, 1 cc	3.50	Results out Monday afternoon*
Swine Influenza Virus	PCR	Nasal swab, lung	30.00	1-3
Transmissible Gastroenteritis	PCR	Feces, fecal swab, intestine	30.00	1-3

**\* Positives sent to NVSL for confirmation. TAT is 5-7 days.**

**Serology samples:**

Serum samples submitted for serology testing should be removed from clot, free from hemolysis, and refrigerated during shipment. Please centrifuge all serum separator tubes before shipment.





VIROLOGY AND SEROLOGY				<a href="#">Table of Contents</a>	Turn-around Time
EQUINE	Test Details	Sample	Fee		
<i>Anaplasma/Ehrlichia spp.</i>	PCR	<i>preferred:</i> whole blood (EDTA) or spleen	25.00	1-3	
Eastern Equine Encephalomyelitis (EEE)	ELISA IgM (Send out to TVMDL)	Serum, 1 cc	40.00	Call lab for turn-around time.	
	PCR	Brain, cerebrospinal fluid (CSF), oral swabs, other tissues, mosquitoes	30.00	1-3	
Equine Herpes Virus (EHV-1)	PCR	nasopharyngeal swab, citrated blood early in infection, tissue, CNS samples	25.00	1-3	
Influenza Virus	PCR	Nasal swab or tissues	30.00	1-3	
Equine Infectious Anemia (EIA) <i>Add \$3.00 regulatory fee</i>	ELISA	Serum, 1 cc	4.00	Same day (Cut off 12pm)	
	AGID	Serum, 1 cc	4.00	Next business day*	
	Request for rush testing (ELISA only)	---	20.00 each	Same day (Cut off 3pm)	
Equine Piroplasmiasis	ELISA	Serum, 1 cc Send out	60.00	Call lab for turn-around time.	
<i>Leptospira icterohaemorrhagiae, canicola, pomona, hardjo, Bratislava, grippityphosa, &amp; autumnalis</i>	MAT (performed on Tuesdays)	Serum	18.00 (1-10) 6.00 (11+)	1 – 2 weeks	
	PCR	Urine, kidney	25.00	1-3	
<i>Mycoplasma spp.</i>	PCR	swab, tissue or fluid of any kind	25.00	1-3	
West Nile Virus	ELISA IgM (Send out to TVMDL)	Serum, 1 cc	40.00	Call lab for turn-around time.	
	PCR	Brain, oral swabs, cerebrospinal fluid (CSF), suspect tissues, mosquitoes	30.00	1-3	



**\*AGID positives sent to NVSL for confirmation. TAT is 5-7 .**

**Serology samples:**

Serum samples submitted for serology testing should be removed from clot, free from hemolysis, and refrigerated during shipment. Please centrifuge all serum separator tubes before shipment.

<b>VIROLOGY AND SEROLOGY</b>				<a href="#">Table of Contents</a>	<b>Turn-around Time</b>
<b>CANINE &amp; FELINE</b>	<b>Test Details</b>	<b>Sample</b>	<b>Fee</b>		
<i>Brucella canis</i>	Card agglutination test	Serum, 1 cc	16.00 screen;	Same day if received by noon.	
	Confirmatory test on pos. by AGID (send out to Cornell)	Serum, 1 cc	40.00 plus shipping	3-5 days	
Canine Adenovirus CAV-1 and CAV-2	PCR	Nasal/Eye/Oral swab or tissues	25.00	1-3	
Canine Coronavirus	FA (perform on Friday, if received by noon of Friday)	Intestine	15.00	Report on Friday	

<b>VIROLOGY AND SEROLOGY</b>				<b>Turn-around Time</b>
<b>CANINE &amp; FELINE</b>	<b>Test Details</b>	<b>Sample</b>	<b>Fee</b>	



Canine Distemper Virus (CDV)	<ul style="list-style-type: none"> <li>• IFA IgG titers on serum only (for vaccination status)</li> <li>• IFA IgG and IgM on CSF</li> </ul>	Serum, CSF (1 cc)	35.00	Performed on Tues. & Fri. if received by 9 A.M.
	FA (perform on Friday, if received by noon of Friday )	tissue	15.00	Report on Friday
	PCR (please notify lab in advance before submit large amount of samples)	swab, lung, brain, and other suspected tissues	30.00	1-3
Canine Herpesvirus 1	PCR	Swabs, Infected tissues	25.00	1-3
Influenza Virus	PCR	Nasal swab or tissues	30.00	1-3
Canine Parvovirus (CPV)	IFA IgG titers (for vaccination status)	Serum, 1 cc	35.00	Performed on Tues. & Fri. if received by 9 A.M.
	PCR	Feces, intestine	25.00	1-3
	FA (perform on Friday, if received by noon of Friday)	Intestine, tongue	15.00	Report on Friday
Chlamydia spp.	PCR	Swab or tissue	25.00	1-3
<i>Ehrlichia/Anaplasma spp.</i>	PCR	<i>preferred:</i> whole blood (EDTA) or spleen	25.00	1-3
Feline Calicivirus	PCR	Nasal/ocular/oral swab, lung,	30.00	1-3
Feline Herpesvirus	PCR	Nasal/ocular/oral swab, lung, other tissues	25.00	1-3
FeLV & FIV	ELISA	Serum, whole blood, 1 cc	20.00	Same day, if received by noon.
Feline Infectious Peritonitis (FIP)	ELISA	Serum, 1 cc	25.00	Same day if received by noon.
	PCR	Thoracic or peritoneal fluid	30.00	1-3

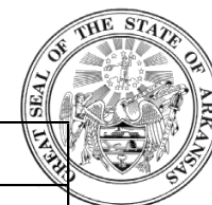


Feline Panleukopenia Virus	FA (perform on Friday, if received by noon of Friday)	Intestine, lymph node, brain, bone marrow	15.00	Report on Friday
	PCR	Feces, intestinal contents, rectal swab, intestine and other suspected infected tissues	\$25.00	1-3
<i>Leptospira icterohaemorrhagiae, canicola, pomona, hardjo, bratislava, grippotyphosa, &amp; autumnalis</i>	MAT (performed on Tuesdays)	Serum	18.00 (1-10) 6.00 (11+)	1 – 2 weeks
	PCR	Urine or kidney	25.00	1-3
<i>Mycoplasma spp.</i>	PCR	swab, tissue or fluid of any kind	25.00	1-3
<i>Tritrichomonas foetus</i>	PCR	feces shipped in culture bag *Do NOT refrigerate*	25.00	1-4

**Avian serology samples:**

Avian serum submitted for serology testing should be removed from clot, free from hemolysis, and refrigerated during shipment. Number of samples submitted should correspond with test(s) requested on Federal 9-2 or the ALPC poultry submission form.

<b>AVIAN DIAGNOSTICS</b>				
				<a href="#">Table of Contents</a>
<b>Test Name</b>	<b>Test Details</b>	<b>Sample</b>	<b>Fee</b>	<b>Turn-around Time</b>
Avian Encephalomyelitis	ELISA	Serum, 1 cc	1.22	1-2
Avian Influenza	AGID <sup>A</sup>	Serum, 1 cc	2.25	Next business day <sup>A</sup>
	ELISA	Serum, 1 cc	1.00	1-2
	PCR	Tracheal, oropharyngeal, or cloacal swabs, or tissues (Collect swab samples in broth, remove swabs, send broth to lab)	30.00	1-3 please notify lab in advance before submit large amount of samples
Avian Polyomavirus	PCR	Liver, heart, spleen, or infected tissue	25.00	1-3
Chicken Anemia Virus	ELISA	Serum, 1 cc	1.22	1-2
<i>Chlamydia</i> spp.	PCR	Swab or tissue	25.00	1-3



Duck Viral Enteritis	PCR	Oral or cloacal swab, liver, spleen, or other tissues	25.00	1-3
Histomonas (Blackhead)	PCR	Caeca, liver, or suspect tissues with lesions	25.00	1-3
Infectious Bronchitis	ELISA	Serum, 1 cc	1.22	1-2
	PCR	Trachea, tracheal swab, cloaca, cloacal swab	30.00	1-3
Infectious Bursal Disease	ELISA	Serum, 1 cc	1.22	1-2
	PCR	spleen, bursal tissue, lymphoid organs	30.00	1-3
Infectious Laryngotracheitis	PCR	Trachea, tracheal swab	25.00	1-3
Marek's Disease	PCR	Blood, spleen, or infected tissue	25.00	1-3
MG/MS Combo	ELISA	Serum, 1 cc	1.00	1-2
<i>Mycoplasma gallisepticum</i> <sup>(2)</sup>	ELISA <sup>(2)</sup> (MG only)	Serum, 1 cc	1.22	Call lab for turn-around time.
	Plate test <sup>B</sup>	Serum, 1 cc	0.26	1-2 <sup>B</sup>
	PCR	Swab, trachea, lung, air sac	25.00	1-3
<i>Mycoplasma synoviae</i> <sup>(2)</sup>	ELISA <sup>(2)</sup> (MS only)	Serum, 1 cc	1.22	Call lab for turn-around time.
	Plate test <sup>B</sup>	Serum, 1 cc	0.65	1-2 <sup>B</sup>
	PCR	Trachea, lung, airsac, swab, synovial fluid, isolate	25.00	1-3
Newcastle Disease	ELISA	Serum, 1 cc	1.22	1-2
	PCR	Tracheal, oropharyngeal, or cloacal swabs, or tissues. Collect swab samples in broth, remove swabs, send broth to lab	30.00	1-3
Pacheco's	PCR	tracheal swab, spleen, intestine or air sac	25.00	1-3
<i>Pasteurella multocida</i>	PCR	Swab, tissue, isolate	25.00	1-3
Reovirus	ELISA	Serum, 1 cc	1.22	1-2
<i>Salmonella pullorum</i>	Tube test	Serum, 1 cc	0.50	Next business day
	Plate test	Serum, 1 cc	0.25	Same day (Cut off 3:30pm)
	Microagglutination	Serum, 1 cc	0.50	Next business day



West Nile Virus	PCR	Swabs, brain, spinal fluid, or other tissues	30.00	1-3
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- A **Positives sent to NVSL for confirmation. TAT is 5-7 .**
- B **Positives sent to NVSL for confirmation. TAT is 3-5 .**

<b>HEMATOLOGY</b>				
				<a href="#">Table of Contents</a>
<b>Test Name</b>	<b>Test Details</b>	<b>Sample</b>	<b>Fee</b>	<b>Turn-around Time</b>
Complete Blood Count (CBC)	WBC, RBC, Hgb, HCT, indices, platelets, manual differential with morphology. Small animal CBC includes blood parasites. Large animal CBC includes fibrinogen. <b><i>(Under-filled tubes may yield inaccurate results.)</i></b>	Whole blood (Lavender top tube with EDTA)	13.50	Same day, if received by noon.
Avian or reptile CBC	WBC, manual differential, RBC morphology, Hgb, PCV, Total protein, and thrombocyte estimate	<b>Best practice: Include an air dried smear.</b>	20.00	Same day, if received by noon.
Reticulocyte Count	% and absolute count (when done in conjunction with CBC)		10.00	Same day, if received by noon.

**Turn-around times are for diagnostic samples only. Testing for research purposes may exceed this turn-around time (depending on volume).**

<b>CLINICAL CHEMISTRY</b>				
				<a href="#">Table of Contents</a>
<b>Test Name</b>	<b>Test Details</b>	<b>Sample</b>	<b>Fee</b>	<b>Turn-around Time</b>
Complete Profile: Small Animal (SA)	Na, K, Cl, CO <sub>2</sub> , Anion Gap, Glucose, BUN, Creatinine, B/C ratio, Ca, Phos., Cholesterol, Amylase, TP, Albumin, Globulin, A/G ratio, Total Bilirubin, ALT, AST, GGT, ALP, CPK, Osmolality, Triglyceride	Serum	25.50	Same day, if received by noon.
Chem-13 (SA)	Na, K, Cl, CO <sub>2</sub> , Anion Gap, Glucose, BUN, Creatinine, B/C ratio, TP, Albumin, Globulin, A/G ratio, Total Bilirubin, ALT, GGT, Osmolality	<b>Be sure to either spin serum</b>	16.00	Same day, if received by noon.



Avian or Reptile Profile	Na, K, Cl, Uric acid, Glucose, BUN, Creatinine, Ca, Phos., Cholesterol, Amylase, TP, Albumin, Globulin, A/G ratio, Total Bilirubin, ALT, AST, GGT, ALP, CPK, Osmolality		25.50	Same day, if received by noon.
Complete Profile: Large Animal (LA)	Na, K, Cl, CO <sub>2</sub> , Anion Gap, Glucose, BUN, Creatinine, B/C ratio, Ca, Phos., Mg, TP, Albumin, Globulin, A/G ratio, Total Bilirubin, ALT, AST, GGT, ALP, CPK, Osmolality		25.50	Same day, if received by noon.
Chem-13 (LA)	CO <sub>2</sub> , Glucose, BUN, Creatinine, B/C ratio, Ca, Mg, TP, Albumin, Globulin, A/G ratio, Total Bilirubin, AST, GGT, CPK		15.50	Same day, if received by noon.
Electrolyte Profile	Na, K, Cl, CO <sub>2</sub> , Anion Gap		10.50	Same day, if received by noon.
Mineral Profile	Ca, Mg, P		11.00	Same day, if received by noon.
Liver Profile	Bilirubin (total, direct, indirect), AST, ALT, ALP, GGT		13.00	Same day, if received by noon.
Bile Acids	Canine: 12-hr fasting & 2-hr postprandial Equine: single, non-fasting sample recommended		12.50 / test	Same day, if received by noon.
Renal Profile	BUN, Creatinine, B/C ratio, Phosphorus		13.00	Same day, if received by noon.
Individual Tests	Any chemistry test may be ordered individually		6.00	Same day, if received by noon.
Urine Protein/Creatinine Ratio		1.0 mL urine	12.00	Same day, if received by noon.

**Turn-around times are for diagnostic samples only. Testing for research purposes may exceed this turn-around time (depending on volume).**

FLUID EVALUATION				<a href="#">Table of Contents</a>
Test Name	Test Details	Sample	Fee	Turn-around Time
Urinalysis	Includes Dipstick, Specific Gravity, and Sediment Analysis Volume needed to semi-quantitate sediment.	5.0 mL urine	10.00	Same day, if received by noon.
Urine Cortisol/Creatinine Ratio	Send out to Texas Veterinary Medical Diagnostic Laboratory(TVMDL)	1.0 ml urine	Call lab for pricing.	Call lab for turn-around time.
Canine Bladder tumor test <i>Trans. Cell Carcinoma</i>	Test should be performed within 48 hr of collection. False positive possible if ↑ protein, glucose, RBC, or WBC	1.0 mL urine	21.50	Same day, if received by noon.



ENDOCRINOLOGY				
				<a href="#">Table of Contents</a>
Test Name	Test Details	Sample	Fee	Turn-around Time
Total T4	Lipemia may increase thyroid concentrations.  <i>(Discounted pricing applies to tests ordered at the same time.)</i>  Testing done by chemiluminescence.	Separated serum or Spun Serum Separator Tube	13.00 for one; 6.50 each add'l On same animal	Same day, if received by noon.
Free T4				
TSH <i>(canine only)</i>				
T4-TSH Combo <i>(canine only)</i>				
T4-Free T4 Combo				
Free T4-TSH Combo <i>(canine only)</i>				
T4-Free T4-TSH Combo <i>(canine only)</i>			19.50 (Thyroid profile – 2-test combo)	Same day, if received by noon.
			26.00 (Thyroid profile – 3-test combo)	Same day, if received by noon.
Cortisol (Resting, baseline)	Lipemia may decrease cortisol concentrations.	Separated serum  <b>(Do NOT use gel -barrier tube.)</b>	16.00 for one; 6.00 each add'l, on same animal.	Same day, if received by noon.
ACTH Stimulation (Pre & Post)				
Low Dose Dex & High Dose Dex Suppression (Pre & Post)				

ENDOCRINOLOGY				
Test Name	Test Details	Sample	Fee	Turn-around Time
Progesterone	Canine or equine	Serum ( <b>NOT</b> in serum separator or gel-barrier tubes)	16.00	Same day, if received by noon.





Relaxin <i>Canine/feline pregnancy</i>	Dog must be at least 27 days post-breeding.	0.5 ml serum or heparinized or EDTA blood	22.00	Same day, if received by noon.
Estrone Sulfate <i>equine pregnancy</i>	Best pregnancy test if horse is >60 days pregnant. Testing performed at TVMDL.	Serum	Call for pricing.	Call lab for turn-around time.
PMSG (eCG) <i>equine pregnancy</i>	Horse must be 38-120 days pregnant. With this test, mare may test positive even if foal is aborted.	Serum	Call for pricing.	Call lab for turn-around time.
Bovine Pregnancy <i>(Run on Mondays only)</i>	ELISA <i>(as early as 28 days post breeding or ≥ 60 days post calving)</i>	Serum	1-4 \$20.00 5-10 \$ 5.00 11+ \$ 3.00	Results out Monday afternoon.
TLI, PLI, Cobalamin, Folate	Performed at TAMU GI lab	12-hour fasting serum	Call for pricing	Call lab for turn-around time.

### IMMUNOLOGY

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<b>Test Name</b>	<b>Test Details</b>	<b>Sample</b>	<b>Fee</b>	<b>Turn-around Time</b>
Direct Coombs	Canine, feline	Whole blood (EDTA)	16.00	Same day, if received by noon.
CITE test	Failure of passive transfer in foals	Serum	18.00	Call lab for turn-around time.

### PARASITOLOGY

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<b>Test Name</b>	<b>Test Details</b>	<b>Sample</b>	<b>Fee</b>	<b>Turn-around Time</b>
Hemoparasites	Direct blood examination for <i>Ehrlichia</i> , <i>Babesia</i> , <i>Hemobartonella</i> , <i>Cytauxzoon</i> , <i>Anaplasma</i> , etc. (as appropriate for the species of animal)	Whole blood (EDTA) & unstained slide(s)	7.50	Same day, if received by noon.
Tick Profile	Direct blood exam; <i>E. canis</i> & RMSF IFA screen. Test performed on Tuesday & Friday.	Whole blood (EDTA) & serum	36.00	Performed Tuesday & Friday if received by 9 A.M.
<i>Ehrlichia canis</i> IFA screen	Testing performed on Tuesday & Friday. IFA screen will be done, unless titer is specified.	Serum	15.00 screen 28.00 titer	Performed Tuesday & Friday if received by 9 A.M.



Rocky Mountain Spotted Fever IFA screen	Testing performed on Tuesday & Friday. IFA screen will be done, unless titer is specified.	Serum	15.00 screen 28.00 titer	Performed Tuesday & Friday if received by 9 A.M.
<i>Babesia canis</i> IFA screen	Testing performed on Tuesday & Friday. IFA screen will be done, unless titer is specified.	Serum	15.00 screen 28.00 titer	Performed Tuesday & Friday if received by 9 A.M.
Lyme, <i>Ehrlichia canis</i> , <i>E. ewingii</i> , <i>A. phagocytophilum</i> , <i>A. platys</i> & Heartworm	For dogs regardless of Lyme vaccination status All tests, except heartworm, are for antibodies. Heartworm test is for antigen. All tests are by IDEXX 4Dx SNAP Plus.	Whole blood, serum, or plasma (EDTA or heparin)	23.00	Same day, if received by noon.
Heartworm Antigen	Dirochek® for dogs Detects mature female worms <i>Testing performed on Tuesdays and Fridays only.</i>	Serum or plasma (EDTA or heparin)	9.00	Performed Tuesday & Friday if received by noon.
Heartworm Antibody	Heska® for cats	Serum or plasma (EDTA or heparin)	11.00	Same day, if received by noon.
Microfilaria Identification	Modified Knott's and direct smear	Whole blood (EDTA); minimum: 1 ml	12.00	Same day, if received by noon.
Fecal Flotation		Feces (4 g)	12.00	Same day, if received by noon.
Direct Fecal Smear		Feces (1 g)	7.00	Same day, if received by noon.
Fecal Egg Count (Bovine, Equine, Ovine, Caprine)		Feces (4 g)	16.00	Same day, if received by noon.
<i>Giardia</i> antigen test		Feces (1 g)	15.00	Same day, if received by noon.
Baermann	Test for lung flukes (Feces must be <48 hours old for fluke viability)	Feces (20 g minimum)	18.00	24 hours if received by 9 A.M. (Tests are not set up on Friday.)
Tritrichomonas foetus	PCR; preputial or vaginal wash sample shipped in a culture bag (Bovine) *Do NOT refrigerate* PCR; feces shipped in culture bag (Feline) *Do NOT refrigerate*	Wash (bovine) Feces (feline)	25.00	1-4

**Turn-around times are for diagnostic samples only. Testing for research purposes may exceed this turn-around time (depending on volume).**



<b>DRUGS</b>				
<i>Remove serum from clot. Don't use serum separator tubes because gel can absorb drugs</i>				<a href="#">Table of Contents</a>
<b>Test</b>	<b>Test Details</b>	<b>Sample</b>	<b>Fee</b>	<b>Turn-around Time</b>
Phenobarbital		Separated serum (1 ml)	20.00	Same day, if received by noon.
Bromide (KBr)		Separated serum (1 ml)	25.00	Testing performed on Tuesdays and Fridays
Phenylbutazone(Bute)		Separated serum (2 ml)	25.00	Standard 7 – 10
Other drugs	Individual drugs or screens are available by request	Urine	Contact lab	Contact lab

<b>ANALYTICAL CHEMISTRY (TOXICOLOGY)</b>					
				<a href="#">Table of Contents</a>	
<b>Test</b>	<b>Comments</b>	<b>Matrix</b>	<b>Min Sample</b>	<b>Price</b>	<b>Turn-around Time</b>
Aflatoxin	Quantification	Feed	100 g (4 oz)	60.00	Standard 7 – 10
Ammonia	Freeze sample as soon as possible in air-tight container	Rumen contents	25 g	20.00	Standard 7 – 10
Cantharidin	Qualitative screen for Toxin from blister beetles	Urine, serum, GI contents	10 mL 100 g (4 oz)	60.00	Standard 7 – 10
Carbamate	Qualitative screen	Liver, stomach contents, bait	10 g (1/2 oz)	50.00 per screen	Standard 7 – 10
Chlorinated pesticides	Chlorinated hydrocarbon insecticides	Poultry Fat	50 g (2 oz)	50.00	Standard 7 – 10
Cyanide	Freeze sample as soon as possible in air-tight container	Plants, GI contents	25 g (1 oz)	10.00	Standard 7 – 10
Ethylene glycol by Spectrophotometry	Rapid assay for dogs and cats upon exposure to antifreeze	Serum, plasma	1 mL	45.00	Same day if received before noon.



Ethylene glycol by GC/MS	Qualitative screen for dogs and cats upon exposure to antifreeze	Urine kidney Stomach contents, bait	1 mL 10 g (1/2 oz) 25 g (1 oz)	50.00	Standard 7 – 10
Fumonisin	Quantification	Feed	100 g (4 oz)	60.00	Standard 7 – 10
Metaldehyde	Snail or slug bait	Bait, stomach contents	5 g (1/4 oz)	30.00	Standard 7 – 10
Nitrate & nitrite		Serum, ocular fluid	2 mL	10.00	Same day if rec. before noon
		Hay, forage	10 g (1/2 oz)	20.00	Standard 7 – 10
pH		GI contents, fluids, etc.	5 mL	5.00	Same day if rec. before 3 pm.
Stone Analysis	Submit in a clean/dry container. Do NOT submit urolith in ANY fluids.	Stone/urolith		15.00	Testing performed on Fridays.
Strychnine		Urine GI contents, bait liver	10 mL 5 g (1/4 oz) 50 g (2 oz)	40.00	Standard 7 – 10
Urea		Feed	5 g (1/4 oz)	25.00	Standard 7 – 10
Toxicant screen	Contact lab for consultation	Stomach contents, bait, tissue, urine		60.00	Contact lab

**Minerals & Metals: Testing for both toxic and deficient levels.**
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Test	Comments	Matrix	Min. Sample	Price	Turn-around Time
Lead		Blood (EDTA)	1 mL	20.00	Same day if received before noon.
Metal Panel	As, Cu, Fe, Mn, Mo, Pb, Zn	Liver (best sample) kidney	5 g (1/4 oz)	30.00 (for one) 20.00 (for each add'l)	Standard 7 – 10
Selenium		Blood (EDTA) Liver	1 mL 5 g (1/4 oz)	30.00 (for one) 20.00 (for each add'l)	Standard 7 – 10
Sodium		Ocular fluid, CSF	1 mL	20.00	Same day, if received by noon.
Trace Element Panel	Cu, Fe, Zn, Ca, Mg	Serum Royal Blue top tube for zinc	2 mL	20.00 (for one) 15.00 (for each add'l)	Standard 7 – 10

**Toxicology Samples:**

Samples for Toxicology can be stored refrigerated or frozen, but not in formalin. Refrigerate blood (EDTA).