

ARKANSAS LIVESTOCK & POULTRY COMMISSION
VETERINARY DIAGNOSTIC LABORATORY

*Accredited by the
American Association of Veterinary Laboratory Diagnosticians*

GUIDE BOOKLET AND FEE SCHEDULE
(Fees effective as of August 4, 2008)



Mr. Jon Fitch, Agency Executive Director
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Veterinary Diagnostic Laboratory
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VETERINARY DIAGNOSTIC LABORATORY

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, President's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day and usually the day after, Christmas Eve, 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.)

After-hours and Weekend Assistance. Samples and small carcasses can be left in the refrigerator on the loading dock after hours. A veterinarian is on-call and can be reached by phone. Call 501-907-2430 for contact information.

Courier Service for samples and small carcasses is available in many areas of the state. Call the diagnostic lab for further information.

Laboratory Results and Invoices will be emailed, faxed, or mailed. A \$2.00 charge will apply if additional copies are requested or if the clinic does not have a dedicated fax line and must be called prior to faxing.

Animals for Export to other states or countries should have samples submitted at least 10 days prior to export.

Rabies suspects.

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 \$5.00 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.

Genetic testing (HYPP, parentage verification, individual identification, karyotyping) is performed at the Veterinary Genetics Laboratory at UC-Davis Veterinary School. Contact them directly for sample collection and shipping information at 530-752-2211 or visit their website at www.vgl.ucdavis.edu/.

Additional Phone Numbers:

State Veterinarian (Dr. George Badley)	501-907-2400
Brucellosis Laboratory (Little Rock)	501-224-0525
Area Federal Veterinarian-in-Charge (Dr. Roger Holley)	501-224-9515
State Public Health Veterinarian (Dr. Sue Weinstein)	501-280-4136

PATHOLOGY		
Test Name	Test Details	Fee
Livestock Necropsy	>900#	125.00
	501-900#	100.00
	100-500	75.00
	<100#	50.00 (20.00 each add'l)
	Spinal cord removal	40.00
	Livestock abortion (fetus & placenta)	50.00
Small Animal Necropsy <i>Pet birds included</i>	Necropsy	65.00
	Spinal cord removal	25.00
	Neonate (1-3 animals)	50.00 (15.00 each add'l)
Poultry Necropsy	Chicks/poults (1-12 birds/submission)	45.00 (2.00 each add'l)
	<15# (1-8 birds/submission)	45.00 (4.00 each add'l)
	>15# (1-4 birds/submission)	45.00 (7.50 each add'l)
	Ratites (adult)	65.00
Euthanasia <i>Call Lab first</i>	>100#	80.00
	50-100#	40.00
	<50#	30.00
Carcass Disposal	101-200# (per animal)	25.00
	<100# (per animal)	15.00
Histopathology	H&E slide with diagnosis (1-5 tissues)	35.00 5.00 each additional slide
	Special stains by request	7.00/case
Cytology	Impression smears and fine needle aspirates	32.00 5.00 each additional site

Rabies Testing: See first page of booklet for animals requiring only rabies testing.

Euthanasia: We do not perform euthanasia except in extraordinary circumstances.

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

Pet Remains: Due to public health and safety concerns, we no longer return animal remains to the owner. We do allow cremation service companies to pick up animals for private cremations.

Necropsy: The animal should be submitted in a fresh state to increase the chance of reaching a meaningful diagnosis. If possible, keep the carcass refrigerated, **but not frozen**. Freezing causes microscopic artifacts.

Histopathology: The ratio of preservative to tissue should be 10:1. The recommended preservative is 10% neutral-buffered formalin, which can be requested for biopsies at no charge from the laboratory.

Skin lesions: When submitting two or more different skin lesions from the same animal, please submit them in separately labeled containers or label each specimen with suture tags and provide a description on the submission form. Punch biopsies representing a generalized condition can be submitted together without suture tags.

Cytology

Impressions smears: Blot the tissue dry, then gently press against the slide. Submit unstained slides.

Fine needle aspirates: Aspirate the lesion using a 3cc syringe and 22 gauge needle. Redirect needle multiple times for good representation. Release the plunger and remove the needle from the lesion. Disconnect needle, fill syringe with air, reconnect needle, and express contents of needle onto the slide. Place a second slide on top of the first slide and pull slides apart slowly. Submit both slides unstained.

BACTERIOLOGY		
Test Name	Test Details	Fee
Aerobic culture		18.00 (1-3 specimens from same animal)
Anaerobic culture		18.00 /specimen
Salmonella	Screen only	10.00 /specimen
	Salmonella O serogrouping	5.00 /isolate
Antibiotic sensitivity		10.00 /isolate
MIC (antibiotic)	For <i>Pseudomonas</i> only	15.00
Identification panels		10.00 /strip
Campylobacter isolation		14.00 /specimen
<i>E. coli</i>	HACCP	25.00 /specimen
<i>Clostridium chauvoei, novyi, septicum, sordellii</i>	Fluorescent antibody	10.00 /specimen
Mycoplasma isolation	Avian or mammalian	20.00 /specimen
Mycoplasma PCR	Contact Lab	25.00/specimen
Johne's PCR	Feces	25.00/specimen
<i>Pasteurella multocida</i>	Serotyping	12.00 /specimen
Total Bacteria Count	Feed, milk, water	25.00 /specimen

MYCOLOGY		
Test Name	Test Details	Charge
Isolation/Identification	All fungi, including dermatophytes	12.00 /case
Aspergillosis	Serum AGID/Titer	12.00/15.00
Blastomycosis	Serum AGID/Titer	12.00/15.00
Coccidioides	Serum AGID/Titer	12.00/15.00
Histoplasmosis	Serum AGID/Titer	12.00/15.00
Fungal Profile	Serum for Aspergillosis, Blastomycosis, Coccidioides, & Histoplasmosis	45.00

Specimen collection and transport for Bacteriology and Mycology:

Urine or other fluids should never be sent in culterette swab containers because they leak and the sample can become contaminated, compromising the accuracy of the results. Either swab the fluid or 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.

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

VIROLOGY & SEROLOGY			
*Marked tests are discounted 40% off the regular fee for samples beyond the first 10 when received together and from the same owner.			
RUMINANTS	Test Details	Sample	Fee
Bluetongue	*AGID	Serum	*9.00
	*ELISA	Serum	*5.00
Bovine Abortion Panel	IBR, BVD, Lepto, Neospora Brucellosis (chart needed)	Serum (paired best)	35.00
Bovine Coronavirus	PCR	Feces	30.00
	FA	Intestine	15.00
Bovine Leukemia Virus (BLV)	*ELISA	Serum	*8.00
Bovine Respiratory Syncytial (BRSV)	FA	Lung	15.00
Bovine Rotavirus	PCR	Feces	25.00
	FA	Intestine	15.00
Bovine Viral Diarrhea (BVD)	Virus Isolation	5 mL EDTA blood spleen, lymph node	30.00
	FA	Lung, intestine	15.00
	SN (type I)	Paired serum	7.00
	SN (type II)	Paired serum	7.00
	PCR (detects types I & II)	5 mL EDTA blood spleen, lymph node	30.00
BVD Persistently Infected animals	Capture ELISA	Ear notch, serum	3.25
	FA	Ear notch	16.00 for 1-4
Caprine Arthritis & Encephalitis	*AGID	Serum	*8.00
Caprine Herpesvirus –1	PCR	Placenta, lung, liver	25.00
Infectious Bovine Rhinotracheitis (IBR)	FA	Lung	15.00
	Virus isolation	Lung, nasal swab	30.00
	PCR	Lung, nasal swab	25.00
	Serum neutralization	Paired serum	7.00
Johne's Disease	AGID	Serum	10.00
	ELISA	Serum	6.00 5.00 (2+)
	PCR	Feces	25.00
<i>Leptospira canicola, hardjo, pomona, grippotyphosa, icterohaemorrhagiae</i>	Performed on Tuesday; <i>bratislava & autumnalis</i> included by request	Serum	15.00 (1-10) 5.00 (11+)
	FA	Kidney (not frozen)	15.00
<i>Neospora caninum</i>	PCR	Kidney, brain, heart of aborted fetus	25.00
	ELISA	Serum	12.00
Ovine Progressive Pneumonia (OPP)	*AGID	Serum	*8.00
Parainfluenza (PI3)	FA	Lung	15.00

Virology & Serology			
EQUINE	Test Details	Sample	Fee
Eastern Equine Encephalomyelitis (EEE)	ELISA IgM	Serum	12.00
	PCR	Brain, spinal cord, whole blood	30.00
Equine Herpes Virus (EHV)	FA	Lung	15.00
	Virus isolation	Nasal swab, lung, liver	30.00
EHV -1	PCR	Nasal swab, brain, nasopharyngeal swab	25.00
Equine Influenza Virus	PCR	Nasopharyngeal swab EDTA blood, liver, lung, spleen, thymus	30.00
Equine Infectious Anemia (EIA) <i>Add \$3.00 regulatory fee</i>	AGID or ELISA	Serum	4.00
	Request for rush testing	Serum	20.00 each
<i>Leptospira canicola, hardjo, pomona, grippotyphosa, icterohaemorrhagiae</i>	Performed on Tuesday; <i>bratislava & autumnalis</i> included by request	Serum	15.00 (1-10) 5.00 (11+)
	FA	Kidney (not frozen)	15.00
West Nile Virus	ELISA IgM	Serum	12.00
	PCR	Brain, spinal cord, whole blood	30.00

Virology & Serology			
PORCINE	Test Details	Sample	Fee
<i>Leptospira canicola, hardjo, pomona, grippotyphosa, icterohaemorrhagiae</i>	Performed on Tuesday; <i>bratislava & autumnalis</i> included by request	Serum	15.00 (1-10) 5.00 (11+)
	FA	Kidney (not frozen)	15.00
Porcine Parvovirus	FA	Lung	15.00
Porcine Circovirus	PCR	Lung	25.00
Porcine Reproductive & Respiratory Syndrome (PRRS)	PCR	Lung	30.00
Pseudorabies	Latex agglutination	Serum	3.50
	FA	Tonsil	15.00
	Virus isolation	Tissues, Nasal swab	30.00
	Serum neutralization	Serum	7.00
Swine Influenza Virus	FA	Lung	15.00
Transmissible Gastroenteritis	PCR	Feces, small intestine	30.00
	FA	intestine	15.00

Virology & Serology			
CANINE & FELINE	Test Details	Sample	Fee
<i>Brucella canis</i>	Card agglutination test	Serum	16.00
Canine Adenovirus	PCR	Eye/oral swab, liver, kidney	25.00
	Virus isolation	Eye/oral swab, liver	30.00
	FA	Liver	15.00
Canine Coronavirus	FA	Intestine	15.00
Canine Distemper Virus (CDV)	IgM and IgG	Serum, CSF	20.00
	Vaccine titer	Serum	16.00
	FA	Lung	15.00
	PCR	Lung, brain, conjunctival swab	30.00
Canine Herpesvirus 1	PCR	Adrenals, lung, liver, kidney, lymph nodes	25.00
	Virus isolation	Tissues, Nasal swab	30.00
	FA	Lung, liver	15.00
Canine Parvovirus	ELISA	Feces	20.00
	Vaccine titer	Serum	16.00
	IFA IgM and IgG	Serum	16.00
	FA	Intestine	15.00
<i>Leptospira canicola, hardjo, pomona, grippotyphosa, icterohaemorrhagiae</i>	Performed on Tuesday; <i>bratislava & autumnalis</i> included by request	Serum	15.00 (1-10) 5.00 (11+)
	FA	Kidney (not frozen)	15.00
Feline Calicivirus	PCR	Nasal/ocular/oral swab lung	30.00
	Virus isolation	Nasal/ocular/oral swab lung	30.00
Feline Herpesvirus	PCR	Nasal/ocular/oral swab Lung, liver	25.00
	FA	Lung	15.00
	Virus isolation	Nasal/ocular/oral swab Lung, liver	30.00
FeLV & FIV	ELISA	Serum, whole blood	20.00
Feline Infectious Peritonitis (FIP)	ELISA	Serum	25.00
	FA	Intestine	15.00
	PCR	Peritoneal fluid	30.00
Feline Panleukopenia Virus	FA	Intestine	15.00

AVIAN DIAGNOSTICS			
Test Name	Test Details	Sample	Fee
Avian Encephalomyelitis	ELISA	Serum	1.22
	Susceptibility	Embryonated eggs	65.00
Avian Influenza	AGID	Serum	2.25
	ELISA	Serum	1.00
	PCR	Cloacal swab, trachea	30.00
Chick Anemia Virus	ELISA	Serum	1.22
Chlamydia	PCR	Spleen, liver, cloacal swab	25.00
Duck Viral Enteritis	PCR	Cloacal swab, liver, spleen	25.00
Infectious Bronchitis	Viral Isolation	Trachea	50.00
	ELISA	Serum	1.22
	HI	Serum	1.75
Infectious Bursal Disease	ELISA	Serum	1.22
Infectious Laryngotracheitis	Viral Isolation	Trachea	50.00
	PCR	Trachea, tracheal swab	25.00
Marek's Disease	PCR	Blood, liver, spleen, gonads	25.00
MG/MS Combo	ELISA	Serum	1.00
<i>Mycoplasma gallisepticum</i>	ELISA	Serum	1.22
	Plate test	Serum	0.26
	HI	Serum	0.65
	PCR	Trachea, lung, airsac	25.00
<i>Mycoplasma synoviae</i>	ELISA	Serum	1.22
	Plate test	Serum	0.65
	HI	Serum	0.65
	PCR	Trachea, lung, airsac, joints	25.00
Newcastle Disease	ELISA	Serum	1.22
	HI	Serum	1.75
	Viral Isolation	Trachea	50.00
	PCR	Cloacal swab, trachea	30.00
Reovirus	Viral Isolation	Tendons	50.00
	ELISA	Serum	1.22
<i>Salmonella pullorum</i>	Tube test	Serum	0.10
	Plate test	Serum	0.25
	microagglutination	Serum	0.10
<i>Salmonella typhimurium</i>	Tube test	Serum	0.08
West Nile Virus	PCR	Tracheal swab	30.00

HEMATOLOGY			
Test Name	Test Details	Sample	Fee
Complete Blood Count	HCT, Hb, RBC & indices, platelets, WBC, & diff	Whole blood (Lavender top tube with EDTA)	13.50
Avian or reptile CBC	PCV, WBC count & diff, Total protein		20.00
Partial Blood Count	HCT, Hb, RBC & indices, platelet count, WBC <i>Morphology & differential not performed</i>		8.00
Differential only			6.00
Platelets	Manual platelet count		9.00
Reticulocyte Count			10.00
Buffy Coat exam	for identification of Mast Cell tumors		20.00
Fibrinogen	Included with Large Animal CBC		6.00
D-Dimer	For DIC testing. If >2 hours, separate plasma, put in red top tube, and keep frozen	Light blue top tube	20.00
PT		(Sodium citrate tube)	16.00
APTT			16.00
PT and APTT			30.00
Coagulation Panel	D-Dimer, PT, APTT, & platelet count.		40.00

CLINICAL CHEMISTRY			
Test Name	Test Details	Sample	Fee
Complete Profile small animal (SA)	TP, Albumin, Globulin, A/G ratio Total Bilirubin, GGT, AST, ALT, ALP, CPK BUN, Creatinine, Glucose, Amylase, Cholesterol, Osmolality, Na, Cl, K, P, Ca, TCO ₂ , Anion Gap	Serum	25.50
Chem-13 (SA)	TP, Albumin, Globulin, A/G ratio Total Bilirubin, GGT, ALT BUN, Creatinine, Glucose, Osmolality, Na, Cl, K, TCO ₂ , Anion Gap	Be sure to either spin serum separator tubes (SST) or to remove serum from the clot prior to sending	16.00
Avian or Reptile Profile	TP, Albumin, Globulin, A/G ratio Total Bilirubin, GGT, AST, ALT, ALP, CPK BUN, Creatinine, Glucose, Amylase, Cholesterol, Uric acid, Na, Cl, K, P, Ca		25.50
Complete Profile large animal (LA)	TP, Albumin, Globulin, A/G ratio Total Bilirubin, GGT, AST, ALT, ALP, CPK BUN, Creatinine, Glucose, Osmolality, Ca, Mg, Na, Cl, K, P, TCO ₂ , Anion Gap		25.50
Chem-13 (LA)	TP, Albumin, Globulin, A/G ratio Total Bilirubin, GGT, AST, CPK BUN, Creatinine, Glucose, Osmolality, Ca, Mg, TCO ₂		15.50
Electrolyte Profile	Na, K, Cl, TCO ₂ , Anion Gap		10.50
Mineral Profile	Ca, Mg, P		11.00
Liver Profile	Bilirubin (total, direct, indirect), AST, ALT, ALP, GGT		13.00
Bile Acids	Canine: 12-hr fasting & 2-hr postprandial Equine: single, non-fasting sample recommended		12.50/test
Renal Profile	BUN, Creatinine, Phosphorus, BUN/Creat ratio		13.00
Pancreatic Profile	Amylase, Lipase		15.00
Fructosamine		10.00	
Individual Tests	Tests may be ordered individually	6.00 <i>Lipase 12.00</i>	

FLUID EVALUATION			
Test Name	Test Details	Sample	Fee
Urinalysis	Volume needed to semi-quantitate sediment	12.0 mL	10.00
Urine Protein/Creat		1.0 mL	12.00
Urine Cortisol/Creat		>3.0 mL	21.00
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
Stone Analysis			15.00
Fluid Cytology	TP, Specific gravity Unclotted sample in EDTA needed for RBC & WBC	Peritoneal Joint, etc.	32.00
CSF Analysis and Cytology	Sample must be tested within 1 hr, unless preserved Must notify lab prior to submission. TP, specific gravity Unclotted sample in EDTA needed for RBC & WBC	CSF	32.00

PARASITOLOGY			
Test Name	Test Details	Sample	Fee
Hemoparasites	Direct blood examination for Ehrlichia, Babesia, Hemobartonella, Cytauxzoon, Anaplasma, etc. (as appropriate for the species of animal)	LTT & unstained slide(s)	7.50
Tick Profile	Direct blood exam; <i>E. canis</i> & RMSF screen	LTT & serum	36.00
<i>Ehrlichia canis</i> screen	Testing performed on Tuesday & Friday. IFA screen will be done, unless Titer is specified.	Serum	15.00 screen 28.00 titer
Rocky Mountain Spotted Fever screen	Testing performed on Tuesday & Friday. IFA screen will be done, unless Titer is specified.	Serum	15.00 screen 28.00 titer
<i>Babesia canis</i> screen	Testing performed on Tuesday & Friday. IFA screen will be done, unless Titer is specified.	Serum	15.00 screen 28.00 titer
Lyme, <i>Ehrlichia canis</i> , <i>A. phagocytophilum</i> , & <i>Heartworm</i>	For dogs regardless of Lyme vaccination status	Serum or LTT	23.00
<i>Anaplasma marginale</i>	Card agglutination test. Price break if >10 samples per submission.	Serum	6.00 (1-10) 3.00 (11+)
Heartworm Antigen	For dogs	Serum or whole blood	9.00
Heartworm Antibody	For cats	Serum or whole blood	11.00
Microfilaria Identification	Modified Knott's and direct smear	LTT	12.00
Fecal Flotation		Feces	12.00
Direct Fecal Smear		Feces	7.00
Baermann	Nematode larvae (i.e. lungworms)	Fresh feces	18.00
Giardia antigen test		Feces	15.00
<i>Trichostrongylus axei</i>	Culture bag		5.00
	Isolation	feces	7.00

IMMUNOLOGY			
Test Name	Test Details	Sample	Fee
Direct Coombs	Canine, feline, equine	LTT	16.00
ANA	Test performed on Tuesday and Friday	Serum	30.00
CITE test	Failure of passive transfer in foals	Serum	18.00

ENDOCRINOLOGY			
Test Name	Test Details	Sample	Fee
Total T4	Lipemia may increase concentrations.	Separated serum or Spun Serum Separator Tube	13.00 for one; \$6.50 each add'l
Total T3			
TSH (<i>canine only</i>)			
Cortisol	Lipemia may decrease cortisol concentrations.	Spun Serum Separator Tube	16.00 for one; \$6.00 each add'l
Progesterone	Canine or equine		
Relaxin <i>canine pregnancy</i>	Dog must be at least 27 days post-breeding. Use green top tube; EDTA can give false results.	0.5 ml blood heparinized	22.00
Estrone Sulfate <i>horse pregnancy</i>	Best pregnancy test if horse is >60 days pregnant. Testing performed at TVMDL. There is a \$10.00 shipping fee to forward sample.	Serum	10.00 shipping fee
PMSG (eCG) <i>horse pregnancy</i>	Horse must be 38-120 days pregnant. With this test, mare may test positive even if foal is aborted.	Serum	15.00

DRUGS			
Remove serum from clot. Don't use serum separator tubes because gel can absorb drugs.			
Phenobarbital		Separated serum	20.00
Bromide (K ⁺ Br)		Separated serum	25.00
Other drugs	Individual drugs or screens are available by request	Separated serum Urine (best sample)	Contact lab

TOXICOLOGY			
Aflatoxins	Quantification	Feed	30.00
Ammonia	Freeze sample as soon as possible in air-tight container	Non-hemolyzed serum Rumen contents	10.00
Anion Screen	Nitrate, nitrite, sulfate, fluoride	Serum, forage, water	25.00
Anticoagulant rodenticides	False negatives common with blood. PT & PTT are better tests in live animal	Liver, bait, blood, Large intestine content	60.00
Avitrol	Bird pesticide	Crop/gizzard cont., bait	45.00
Bromethalin	Neurotoxic rodenticide	Liver, bait, GI contents	30.00
Cantharidin	Toxin from blister beetles	Urine, serum, GI cont.	60.00
Chlorinated pesticides	Chlorinated hydrocarbon insecticides	Fat	50.00
Cholinesterase	For anti-cholinesterase insecticides (OP and Carbamates)	Blood (EDTA) Half of cerebrum	15.00
Cyanide	Freeze sample as soon as possible in air-tight container	Plants, GI contents	10.00
Ethylene glycol kit (antifreeze)	For dogs not treated with drugs that contain glycols (AC, valium, etc.)	Serum, blood	25.00
Ethylene glycol by GC/MS	For dogs treated with drugs that contain glycols and for cats	Serum, urine, kidney Stomach contents	50.00
Insecticides	Organophosphate, Carbamate, or Organochlorine screen	Liver, stomach contents, bait	40.00 <i>per screen</i>
Metaldehyde		Bait, stomach contents	30.00
Nitrate & nitrite		Serum, ocular fluid Hay, forage	10.00 20.00
Paraquat & diquat	Herbicides	Urine, GI cont., feed	15.00
pH		GI contents, fluids, etc.	5.00
Strychnine		Urine, GI contents, liver	30.00
Zinc phosphide	Neurotoxic rodenticide	Stomach contents, bait	25.00
Minerals & Metals: Testing for both toxic and deficient levels.			
Feed Analysis	Ca, P, Na, K, Mg, Cu, Mo, Fe, Zn, As	Feed, hay, forage	30.00 15.00(2+)
Arsenic		Urine	20.00
Lead		Blood (EDTA)	20.00
Metal Panel	As, Cu, Fe, Mo, Pb, Zn	Liver, kidney (both best) Feed, water, etc.	20.00 10.00(2+)
Selenium		Blood (EDTA)	20.00 10.00 (2+)
		Liver, feed, water	20.00 10.00(2+)
Sodium		Brain, ocular fluid, CSF	20.00
Trace Element Panel	Cu, Fe, Zn, Ca, Mg	Serum	20.00
		<i>Royal Blue top tube for zinc</i>	10.00(2+)

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