DLAM Pathology & Laboratory Medicine Services
University of California, Los Angeles of Medicine
Division of Laboratory Animal Medicine
Tel:(310)206-8120 Fax: (310) 206-1831
Email:dlamlab@mednet.ucla.edu

UCLA Division of Laboratory Animal Medicine

Serum Chemistry Services

Division of Laboratory Animal Medicine provides blood (serum) chemistry diagnostic tests for research and clinical needs. These measurements can aid in assessing the function of various organs and body systems.

Chemistry Panels

Test	Minimum Volume (µl) Serum	Price
Individual Assay		$ 13.25
Renal Panel- (BUN and CREA)	100	$ 35.16
Liver Panel- (ALP, ALT, AST, DBILI, and TBILI)	200	$ 39.00
Liver Plus Panel- (ALP, ALT, AST, DBILI, TBILI, GGT,LDH, and TP)	200	$ 42.38
Chem. 11 Panel (Select up to 11 assays for list below)	300	$ 30.00
Custom Panel	Varies	Price to order
Lipid Panel- CHOL, TRIG, LDL, HDL	100	$35.66
Chem. 21 Panel- (ALB, ALP, ALT, AST, DBILI, TBILI, BUN, CA, CO_2-LC, CHOL, CK, CREA, GGT, GLU, PHOS ,TP, Electrolytes (Na K CL), Albumin/Globulin Ratio (AGR), BUN/Creatinine ratio (B_Crea), and ANION	450	$ 40
Full Panel- (ALB, ALP, ALT, AMYL, AST, DBILI, TBILI, BUN, CA, CO_2-LC, CHOL, CK, CREA, GGT, GLU, LDH, PHOS ,TP, TRIG, UA, Lipase, Electrolytes (Na K CL), Albumin/Globulin Ratio (AGR), BUN/Creatinine ratio (B_Crea), and ANION	500	$ 59.77
NHP- Panel (ALB, ALP, ALT, AMYL, AST, DBILI, TBILI, BUN, CA, CO_2-LC, CHOL, CK, CREA, GGT, GLU, PHOS ,TP, TRIG, Lipase, Electrolytes (Na K CL), Albumin/Globulin Ratio (AGR), BUN/Creatinine ratio (B_Crea), and ANION	500	$55.48
Laboratory Fee Processing Fee- (for every set of up to 10 samples submitted on the same day)		$ 11.00
10% percent charge for all RUSH items		

* Sample collection supplies are not included.

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Specimen Collection, Handling and Storage

1. Clear, unhemolyzed serum is the preferred sample. Submit samples undiluted.
2. Collect whole blood and allow to clot (15-30min); centrifuge (1,000 - 2,000 x g for 10min) and separate serum as soon as possible after collection. A serum separator tube with a gel barrier is preferred.
3. Most assays are stable for 24hrs when refrigerated, if longer storage is required samples should be stored in a -20°C or lower.
4. Do not combine serum from different animals in the same tube we cannot process these samples.
5. Frozen samples to be shipped -Serum samples should be shipped, frozen, using an overnight service. (One- two pounds of ice packs are adequate depending on the shipping container type.) Dry Ice is not required.

Attn: DLAM Lab
650 Charles E Young Drive, South
CHS 5v-109
Los Angeles, CA 90095

6. All samples must be submitted with the appropriate paperwork.
7. Please describe any potential biohazards associated with these samples.

For information non-listed test please contact the DLAM Diagnostic Lab:
Phone: 310-206-3170
email: dlamlab@mednet.ucla.edu

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In-House Serum Chemistry Test Availability and Sample Requirements

Test	Reporting Units	Minimum Volume (µl) required for Single Assay Submission*
Albumin- ALB	g/ul	10
Alkaline Phosphatase- ALP	U/L	10
ALT (GPT)- ALT	U/L	40
Amylase- AMLY	U/L	10
AST (GOT)- AST	U/L	30
Bilirubin, Direct- DBILI	mg/dl	30
Bilirubin, Total-TBILI	mg/dl	30
Blood Urea Nitrogen- BUN	mg/dl	10
Calcium-CA	mg/dl	10
Carbon Dioxide (CO^2-LC)	mEq/L	15
Cholesterol- CHOL	mg/dl	10
Creatine Kinase- CK	U/L	15
Creatinine- CREA	mg/dl	30
γGT (Gamma-Glutamyl Transferase)- GGT	U/L	15
Glucose- GLU	mg/dl	10
HDL (Not included in Chem. 11)		10
Inorganic Phosphorus- PHOS	mg/dl	10
LDH (Lactate dehydrogenase)- LDH	U/L	10
LDL (Not included in Chem. 11)		10
Lipase- LIP	U/L	10
Magnesium**- MG	mg/dl	10
Total Protein- TP	g/dl	10
Triglycerides- TRIG	mg/dl	10
Uric Acid- UA		10
Electrolytes- NA, K, CL (Sodium, Potassium, Chloride)	mmol/L	200

Please note: the sample volume listed is the volume that the analyzer must be able to pick up from the sample cup to run the analysis one time. The actual required specimen volume is somewhat greater. Additional sample volume may be needed for repeat testing in the event of abnormal test values or high test values requiring rerun analysis by dilution.

**Special Reagent special handling required may need to be ordered.

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Serum Sample Stability

Test	Sample Stability (2-8°C)	Sample Stability (-20°C)	
Albumin	72h	6m	†
Alkaline Phosphatase	7d	3m	No EDTA Plasma (inhibits) †
ALT (GPT)	7d	n/a	†
Amylase	1m	n/a	
AST (GOT)	7d	3m	†
Bilirubin, Direct	12h	3-4m	Sample light sensitive
Bilirubin, Total	12h	3-4m	
BUN	3d	2-3m	Avoid anticoagulants containing fluoride avoid
Calcium	1wk	5m	calcium free tube †
Carbon Dioxide (CO^2-LC)	7d	2w	
Cholesterol	5-7d	3m	
CK	48h	20d	†
Creatinine	7d	3m	
γGT (Gamma-Glutamyl Transferase)	7d	3m	
Glucose	72h	n/a	
HDL			
Inorganic Phosphorus	days	months	separated 1hr after collection
LDH (Lactate dehydrogenase)	3d	n/a	†
LDL			
Lipase	3wk	n/a	
Magnesium	7d	1y	†
Total Protein	<72h	6m	†
Triglycerides	5-7d	3m	glycerol-free tubes
Electrolytes-(Sodium, Potassium, Chloride)	n/a	n/a	†
Uric Acid	3-5d	6m	

†

Degree of change in analyte	Test result increased by hemolysis	Test result decreased by hemolysis	Test result increased or decreased by hemolysis
Slight change	Phosphate, Total Protein, Albumin, Magnesium, Calcium, Alkaline Phosphatase (ALP)	Haptoglobin, Bilirubin	
Noticeable change	ALT, CK, Iron, Coagulation tests	Thyroxine (T4)	
Significant Change	Potassium (K+), Lactate Dehydrogenase (LD), AST	Troponin T	HB, RBC, MCHC, Platelet Count