

In-Vivo Animal Core (IVAC) Animal Diagnostic Laboratory

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Serum Chemistry

ULAM offers serum chemistry tests as individual tests or as profile panels. Our instruments are calibrated to serum, not plasma. Yellow top serum separator tubes yield the best sample quality. Whole blood collected in a red top or other non-additive tube tends to yield hemolyzed serum, which limits the ability of our automated instrument to give an accurate result. Typically, half the volume of whole blood is serum, so it is recommended you collect double the volume of whole blood to give you the required volume of serum (i.e. 100ul of whole blood gives you 50ul of serum).

Our laboratory can spin your collected blood in your yellow or red top tubes to obtain the serum, if desired, on the same day of collection. If samples will not be submitted to the diagnostic lab the same day the blood is collected, your lab needs to spin and separate serum in separator tubes or aliquot plasma (from red top) for storage at -20°C.

Please use our *General Diagnostic Lab Form* for submitting your samples to the laboratory. We have locations in the North Campus Research Complex B36 G157, and ARF room 3527. Submission hours are 9:00 AM – 3:00 PM weekdays.

Different chemistries require different volumes of serum to run the requested tests. See table for some test combinations with their required volumes to assist you with your blood collection volumes. Please contact us with any questions, we are happy to assist.

Chemistry	Serum Requirement (in ul)
Electrolytes only (ISE, Na, K, Cl)	150
Liver Panel (ALT, AST, ALP, TBili, ALB)	100
Renal Panel (BUN, Creat)	50
Mini-Chemistry Panel (ALB, ALP, ALT, BUN, Ca, Creat, Tpro, Gluc, Tbili)	120
Mini-Chemistry Panel + AST	150
Full Chemistry Panel (ALB, ALP, AST, BUN, Ca, Chol, CK, Creat, Gluc, TBili, TPro, Trig, Electrolytes)	270
Full Chemistry Panel (no electrolytes)	150
Mini-Liver Panel (no electrolytes)	50
Renal Panel + Liver Panel	150
Single chemistries	(please inquire)