









**University of Colorado Hospital – Clinical Laboratory
Neonatal Blood Collection Job Aid**

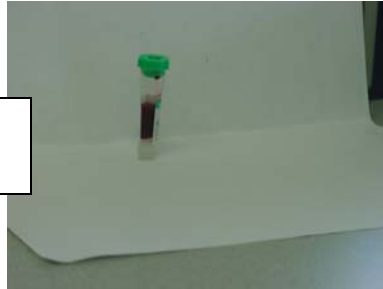
Lab Test	Volume	Lab Test	Volume	Lab Test	Volume	Lab Test	Volume			
	Greiner Green Top Minicollect Tube		BD Lavender Top Microtainer - EDTA		iSTAT ABG Heparinized Radiometer Capillary Tube (no mixing flea needed)		BD 1.8 mL Draw-Sized Tube For critical smaller volume draws, contact Laboratory Coagulation section.			
Basic Metab Panel*	0.8 mL	CBC, Platelets	0.5 mL	ABG	0.125 mL (full capillary)	DIC Panel	1.8 mL Do not overfill or underfill.			
Comp Metab Panel**	1.6 mL	Retic/Hematocrit	0.5 mL		Tuberculin ABG Syringe with Balanced Heparin	PT - Prothrombin Time				
BUN, Creatinine	0.5 mL	CBC, Seval, Retic, Plts	0.8 mL			PTT				
Caffeine***	0.9 mL	HIV/RNA/PCR	1.0 mL			D-Dimer				
Calcium	0.5 mL	(0.5 mL can be run but will decrease sensitivity of testing.)				Neonatal Protocol	0.8 mL	Thrombin Time		
Ca, Mg, Phos	0.5 mL	Type and Cross	0.8 mL	ABG	0.3 mL		BD 6.0 mL Red Top Vacutainer with Clot Activator			
CRP (Order STAT C-Reactive Protein)	0.5 mL	Direct and Indirect Coombs	0.8 mL	ABG, Ionized Calcium	0.4 mL					
Electrolytes	0.5 mL	*Calcium, CO2, Cl, Creat, Glu, K, Na, BUN	0.8 mL	ABG, Ionized Calcium and Whole Blood Glucose	0.5 mL					
Gentamicin	0.5 mL	**Calcium, CO2, Cl, Creat, Glu, K, Na, BUN, Total Bili, ALT, AST, ALB, ALP, Total Protein								
Glucose	0.5 mL	*** Contact laboratory before collection to minimize total turnaround time. Prep time for instrument is 2 hours.		Heparinized Radiometer Capillary Tube	Blood Gas (ABG)	1 full tube	Cortisol	1.0 mL		
Lytes, BUN, Creatinine	0.5 mL	QUESTIONS? Aubrey Robinson x87071						BD 0.6 mL Grey Top Microtainer (Sodium Fluoride/Disodium EDTA)	Free T4	1.0 mL
Lytes, Ca, Mg, Phos	0.65 mL								T4	1.0 mL
Lytes, Total Bilirubin	0.5 mL								Free T4 and T4	2.0 mL
Phenobarbital	0.5 mL		Lactate	0.5 mL						
Total Protein and Albumin	0.5 mL		Blood Gas (ABG)	1 full tube						
TPN Labs: Alk Phos, ALT, GGT, Alb	0.8 mL		Glucose whole blood	60% full (7 cm of tube)						
Triglycerides	0.5 mL									
TSH	0.9 mL									
Vancomycin	0.5 mL									

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I. Overview of Greiner MiniCollect Green Tops with Gel



Use supplied funnel or alternatively drip blood directly into MiniCollect



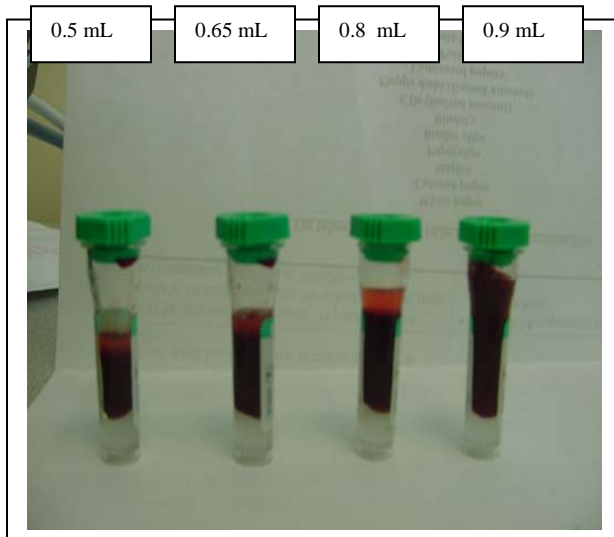
Be sure to use amber carrier tube for all submitted MiniCollect Samples. This will provide optimal turnaround



Make sure that your baby's zebra label is placed with the test name beginning at the top of the amber tube

II. Minimum Volume Requirements for Common Laboratory Tests

A. Chemistry and Therapeutic Drugs:



Category A Tests: Electrolytes (count as one), BUN, Creatinine, Bili Total, Bili Direct, Glucose, Calcium, Triglycerides, AST, Alk Phos, ALT, GGT, Albumin, Total Protein, CRP, Magnesium, Vancomycin, Gentamicin, Phenobarbital

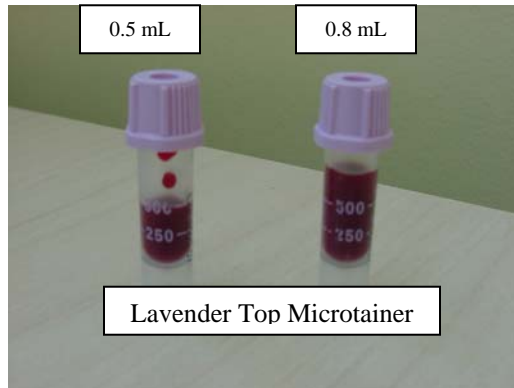
Category B Tests: Caffeine

Amount needed in a Green Top MiniCollect with Gel

# of Tests	Category type and Volume Requirements
1-3	Category A tests must have at least 0.5 mL
4	Category A tests must have at least 0.65 mL
5-6	Category A tests must have at least 0.8 mL
1	Category B test must have at least 0.9 mL

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B. Hematology, Blood Bank, and Virology

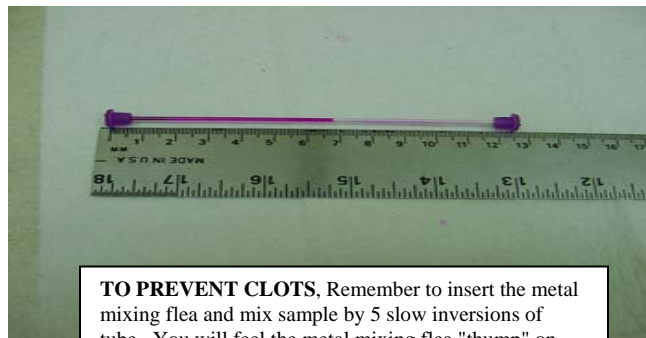


CBC/Diff/Platelets/Retic - Must have 0.5 mL in Lavender top Microtainer

HIV - RNA/PCR - 0.5 mL in Lavender Top Microtainer

Transfusion Services Neonatal Protocol - Must have 0.8 mL in a lavender top Microtainer. Avoid use of red tops for sample collection.

C. Whole Blood Glucose



TO PREVENT CLOTS, Remember to insert the metal mixing flea and mix sample by 5 slow inversions of tube. You will feel the metal mixing flea "thump" on each end of the capillary tube as you mix.

Radiometer Heparinized Capillary Tube

0.070 mL minimum assay volume. This is approximately 60% full. If you can provide in excess of 60% without neonate compromise, please do. For those who carry a ruler, please use the photo as your guide. The photo includes the sample mixing wire as well - Note that a level of 7 cm will allow for successful analysis.