


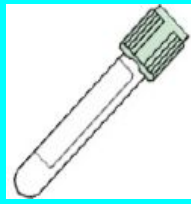






**University of Colorado Hospital – Clinical Laboratory
Neonatal Blood Collection Job Aid**

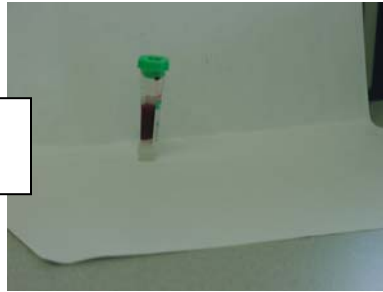
Lab Test	Volume	Lab Test	Volume	Lab Test	Volume	Lab Test	Volume		
	Greiner Green Top Minicollect Tube		BD Lavender Top Microtainer - EDTA		iSTAT ABG Heparinized Radiometer Capillary Tube (no mixing flea needed)		BD 1.8 mL Draw-Sized Tube For critical smaller volume draws, contact Laboratory Coagulation 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					PT - Prothrombin Time	
BUN, Creatinine	0.5 mL	CBC, Seval, Retic, Plts	0.8 mL		Tuberculin ABG Syringe with Balanced Heparin			PTT	
Caffeine***	0.9 mL	HIV/RNA/PCR (0.5 mL can be run but will decrease sensitivity of testing.)	1.0 mL			D-Dimer			
Calcium	0.5 mL	Neonatal Protocol	0.8 mL			Thrombin Time			
Ca, Mg, Phos	0.5 mL	Type and Cross	0.8 mL						
Cortisol	0.8 mL	Direct and Indirect Coombs	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			ABG, Ionized Calcium	0.4 mL				
Electrolytes	0.5 mL			ABG, Ionized Calcium and Whole Blood Glucose	0.5 mL				
Gentamicin	0.5 mL	*Calcium, CO2, Cl, Creat, Glu, K, Na, BUN **Calcium, CO2, Cl, Creat, Glu, K, Na, BUN, Total Bili, ALT, AST, ALB, ALP, Total Protein *** Contact laboratory before collection to minimize total turnaround time.			Heparinized Radiometer Capillary Tube		BD 0.6 mL Grey Top Microtainer (Sodium Fluoride/Disodium EDTA)		
Glucose	0.5 mL							Free T4	1.0 mL
Lytes, BUN, Creatinine	0.5 mL							Lactate	0.5 mL
Lytes, Ca, Mg, Phos	0.65 mL							Questions? Aubrey Robinson x87071	
Lytes, Total Bilirubin	0.5 mL								
Phenobarbital	0.5 mL								
T4	0.8 mL								
Total Protein and Albumin	0.5 mL								
TPN Labs: Alk Phos, ALT, GGT, Alb	0.8 mL								
Triglycerides	0.5 mL			Blood Gas (ABG)	1 full tube				
TSH	0.9 mL	Glucose whole blood	60% full (7 cm of tube)						
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



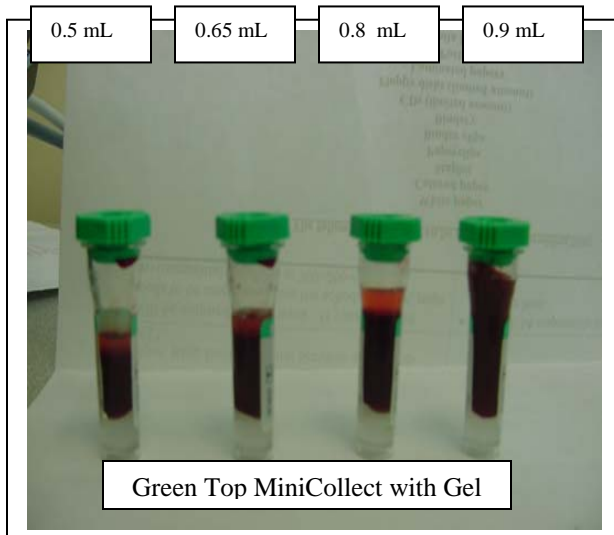
Be sure to use amber carrier tube for all submitted MiniCollect Samples. This will provide optimal turnaround



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, Therapeutic Drugs and Endocrine:



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: Total T4, Free T4, TSH, Cortisol

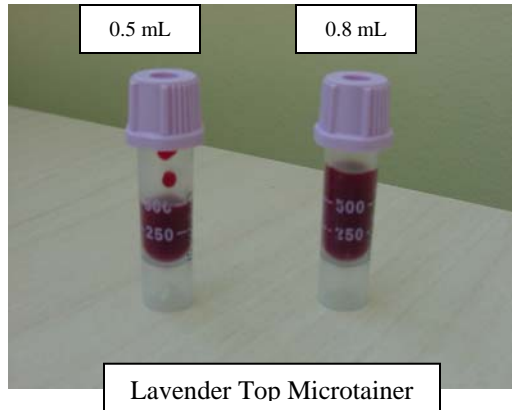
Category C Tests: Caffeine

Amount needed in a Green Top MiniCollect with Gel

<u># of Tests</u>	<u>Category type and Volume Requirements</u>
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 Tests must have at least 0.8 mL
2	Category B tests must have at least 0.9 mL
1	Category C test must have at least 0.9 mL

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B. Hematology, Blood Bank, Virology and Caffeine



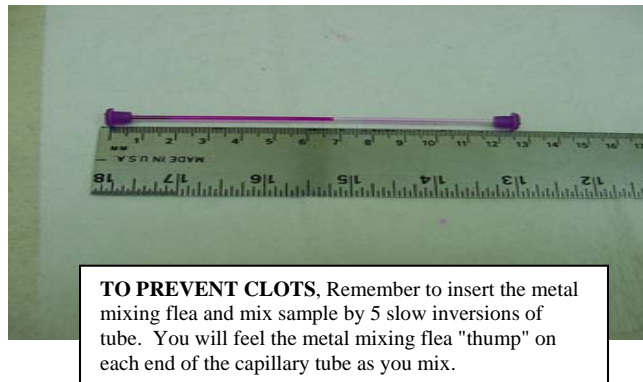
Caffeine - Must collect a full (0.9 mL) green top MiniCollect. *Call ahead to laboratory. Instrument preparation requires 2 hours.*

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



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.