







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

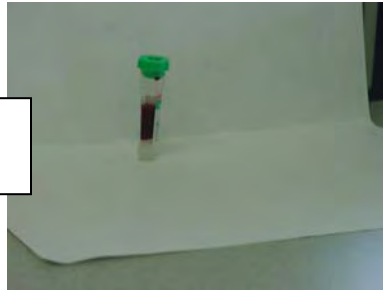
Lab Test	Volume	Lab Test	Volume	Lab Test	Volume	Lab Test	Volume	
	<b>Greiner Green Top Minicollect Tube</b>		<b>BD Lavender Top Microtainer - EDTA</b>		<b>iSTAT ABG Heparinized Radiometer Capillary Tube (no mixing flea needed)</b>		<b>BD 1.8 mL Draw-Sized Tube</b>	
Basic Metab Panel*	0.8 mL	CBC, Platelets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

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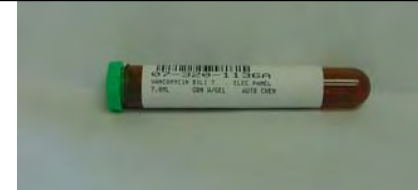
**I. Overview of Greiner MiniCollect Green Tops with Gel**



Use supplied funnel or alternatively drip blood directly into MiniCollect



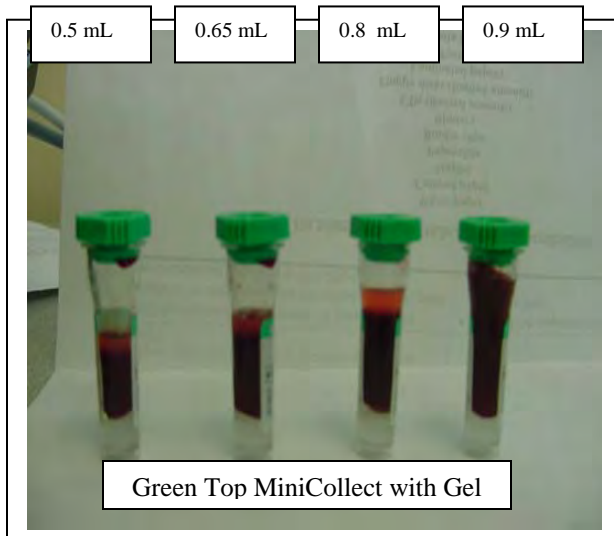
Be sure to use amber carrier tube for all submitted MiniCollect Samples. This will provide optimal turnaround



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, 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

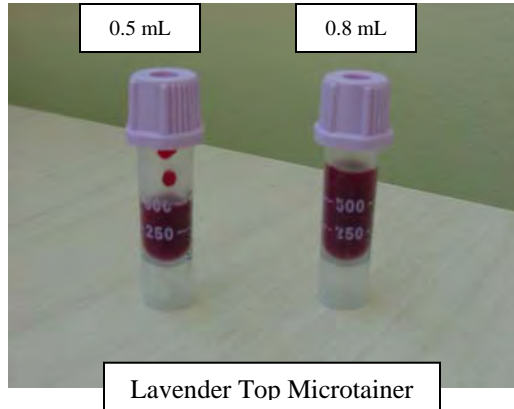
**Category C Tests:** Caffeine

**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**



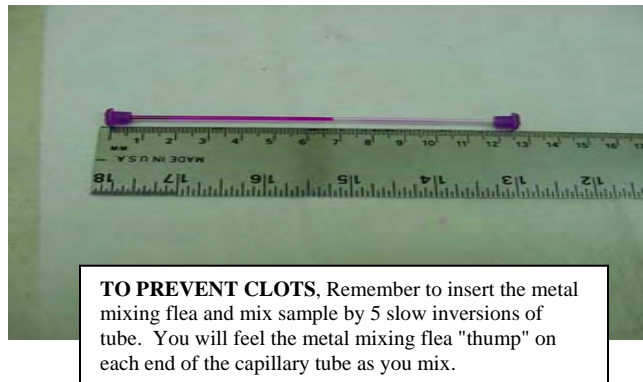
**Caffeine** - Must collect a full (0.9 mL) green top MiniCollect. *Call ahead to laboratory. Instrument preparation requires 2 hours.*

**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.