Pediatric Testing Volumes
Department of Pathology

BROWN Health UNIVERSITY

Please Note: Minimum volumes established for critically ill pediatric patients.

Test Orders	Recommended Tube & Vol	Minimum Volume	Notes
Chemistry Assays* (Up to 10 most common)	Green Top 500uL	Green Top Fingerstick 0.5 mL	Albumin, Alkaline Phosphatase, ALT, Amylase , AST, BUN, Calcium, Chloride, CK, CO2, Creatinine, Direct Bilirubin, Glucose, Iron,Ketones, LDH, Lipase, Magnesium, Osmolality, Phosphorus, Potassium, Sodium, TIBC, Total Bilirubin, Total Protein, Uric Acid, Acetaminophen, Carbamazepine, Gentamycin, Phenytoin, Salicylate, Theophylline, Valproic Acid, Vancomycin
Ammonia	Green Top 200uL	Green Top Fingerstick 0.5 mL	On Ice
Lactic Acid	Green Top 200uL	Green Top Fingerstick 0.5 mL	On Ice
Lead	Green Top Tube (no gel) 2.0 mL	0.5 mL	Acceptable Tube: Lavender Top with 0.5 mL
Adolescent Drug Screen	NA	20 mL	Random Urine must be submitted with sample.
Free Dilantin	Red Top Tube (no gel) 3.0 mL	NA	
CBC w/ Diff, Retic	Lav Top Tube 3 mL	Lavender Top Fingerstick tube 0.5 mL	
Sed Rate, CBC w/ Diff, Retic	Lav Top Tube 3 mL	NA	
T Cell Panel	Lav Top Tube (ESI# 63886) 3 mL	400 uL	
Hemoglobin electrophoresis	Lav Top Tube 3 mL	300 uL	
Severe Combined Immunodeficiency	Lav Top Tube 3 mL	500 uL	
PT, PTT, Fibrinogen, D-Dimer, and Thrombin Time	Blue Top Tube	1.8 mL	Tubes must be filled to indicator line.
Basic Factor Assays*	Blue Top Tube	2.7 mL	*Additional Tube
Platelet Function Assays* von Willebrand's Screen, Platelet Aggregration, Hypercoag	Call Lab	NA	**Call Lab**

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TSH, T3, T4, Free T4, Free T3, Cortisol Ferritin and Vitamin B12	Red Top Tube w/Gel 1.0 mL	1.0 mL	
Hepatitis Screening (HbsAg, HbsAb, HAV, HAVM, HCV)	Red Top (w/gel) 5 mL	2.5 mL	
HIV*	Red Top w/Gel 2.5 mL	NA	*Additional Tube needed
Prealbumin, Lyme, Endomesial, IgA, EBV, Varicella, and CMV*	Red Top (w/gel) 5 mL	2.5 mL	*Additional Tube needed
Type and Screen	Pink Top 2mL	1mL	Acceptable Tube: Lavender. More sample may be necessary to complete testing
Blood Cultures Pedi Bottle	** Based on weight: < 19 lbs. Use 1 mL per culture bottle 18-30 lbs. Use 3 mL per culture bottle 30-60 lbs. Use 5 mL per culture bottle	**	