

Blood Test	Amount	Container	Other Comments
Routine Biochemistry Tests <ul style="list-style-type: none"> 1 test 2-4 tests 5-10 tests 	Below fill line Lowest fill line Highest fill line	Green microtainer	Albumin, ALT, ALP, AST, Creatinine, CRP, TBil, DBil, Na, K, Cl, CO ₂ , GGT, Urea (BUN), CA, Phosphorus
Albumin	0.5 mL	Green microtainer	Biochemistry
ALT, ALP, AST, GGT	0.5 mL	Green microtainer	Biochemistry
Amino Acids – Blood (Quantitative)	0.5 mL	Green microtainer or blood gas syringe	Biochemistry
Ammonia	0.5 mL	Green microtainer	Biochemistry
Anti-XA	0.9 mL of blood to 1.0 mL of 3.2% sodium citrate	Blue coagulation microtainer (3.2% sodium citrate)	Invert gently and thoroughly 4-6 times Hematology
APT Test	1 mL of gastric aspirate	Sterile container	To determine swallowed maternal or fetal blood
Bilirubin (Total and Direct)	0.5 mL	Green microtainer	Biochemistry
Blood Culture	1-2 mL	Blood Culture Bottle	Microbiology
Blood Gases	0.3 mL	Blood gas syringe or Capillary tube	Lactate, ionized calcium, glucose, electrolytes can be done on same sample
Broad spectrum urine drug screen	5 mL urine	Sterile Container	Biochemistry
Calcium, ionized	0.3 mL	Capillary tube or Blood gas syringe	Biochemistry
Calcium, Total, Phosphorus, ALP	0.5 mL	Green microtainer	Biochemistry
Carnitine, Total and Free with Acylcarnitines	0.5 -1.5 mL	if filling 0.5-1.5 change: green microtainer X 1-2	Biochemistry
CBC and Differential	0.5 mL	Lavender microtainer	Hematology
Chromosomes/Karotype/Fish	3 mL	Adult Green Sodium Heparin Tube	HSC requisition
CMV - PCR	1 mL	Lavender microtainer x2	Microbiology
CMV serology	0.5 mL	Red microtainer x1	Microbiology
COOMBS/DAT	0.5 mL	Lavender microtainer	Transfusion Medicine
Creatinine, BUN (Urea)	0.5 mL	Green microtainer	Biochemistry
Critical Bloodwork for Newborn <ul style="list-style-type: none"> Insulin Serum Glucose, Cortisol, Growth Hormone Beta Hydroxybutyrate Free Fatty Acids 	0.5 mL 0.5 mL 0.5 mL 0.5 mL	Red microtainer Green microtainer Red microtainer Red microtainer	Biochemistry sends Beta Hydroxybutyrate and Free Fatty Acids to HSC.
CRP	0.5 mL	Green microtainer	Biochemistry
CSF Glucose and Protein	0.5 mL	CSF container	Biochemistry
d-Dimer	0.9 mL of blood to 1.0 mL of 3.2% sodium citrate	Blue coagulation microtainer (3.2% sodium citrate)	Hematology
Electrolytes – Na, K, Cl, CO ₂	0.5 mL	Green microtainer	Biochemistry
ESR	1 mL	Adult Lavender EDTA Tube	Hematology
Ferritin	1 mL	Green microtainer x2	Biochemistry
Fibrinogen	0.9 mL of blood to 1.0 mL of 3.2% sodium citrate	Blue coagulation microtainer (3.2% sodium citrate)	Hematology
FISH – Aneuploidy (Trisomy 13, 18, 21)	1-3 mL	Adult Green Sodium Heparin Tube	HSC requisition
G6PD Quantitation	0.5 mL	Lavender microtainer	Biochemistry
Galactosemia	0.5 mL	Adult Green Lithium Heparin Tube	HSC requisition
Galactosemia Quantitation	1 mL	Adult Green Lithium Heparin Tube	HSC requisition
Gentamicin	0.5 mL	Red microtainer	Biochemistry
Glucose	0.5 mL	Green microtainer	Biochemistry
Hemoglobin electrophoresis	0.5 mL	Lavender microtainer x1	Hematology
Hepatitis C – Serology	0.5 mL	Red microtainer	Microbiology
Hepatitis C – PCR	2.5 mL	Adult Red top tube	Microbiology
HIV PCR	2-3 mL	Adult Lavender EDTA tube	Public Health Ontario HIV PCR requisition. Biochemistry sends to HSC: Dr. Sean Ari Bitnun.
17 Hydroxy progesterone (17 –OHP)	1 mL	Red microtainer x2	Biochemistry
HPA 1A	1 mL	Lavender microtainer x2	Both parents blood must be drawn use transfusion medicine req. Contact: Amanda – Transfusion medicine
HSV PCR – Plasma	0.5 mL	Lavender microtainer	Microbiology
HSV PCR – CSF	0.5 mL	CSF container	Microbiology
Lactate	0.3 mL	Blood gas syringe or Capillary tube	Biochemistry
LH FSH DHEAS	1 mL	Green microtainer x2	Biochemistry
LDH	0.5 mL	Green microtainer	Biochemistry
Microarray: Array-Based Comparative Genomic Hybridization	1 mL	Adult Lavender EDTA	HSC Requisition
Nevirapine	1 mL	Adult Green Sodium Heparin Tube	McGill University Requisition Biochemistry sends to McGill University Health Centre
Phenobarbital	0.5 mL	Red microtainer	Biochemistry
PTH	0.5 mL	Green microtainer x1	Biochemistry
aPTT, INR/PT	0.9 mL of blood to 1.0 mL of 3.2% sodium citrate	Blue coagulation microtainer (3.2% sodium citrate)	Hematology
Pyruvate Kinase assay	0.5 – 1mL	Lavender microtainer x2	
Testosterone	1 mL	Green microtainer x2	Biochemistry
Tobramycin	0.5 mL	Red microtainer	Biochemistry
T3 – Free (FT3)	1 mL	Green microtainer x2	Biochemistry
T4 – Free (FT4)	1 mL	Green microtainer x2	Biochemistry
TSH OR TSH and FT4	1 mL	Green microtainer x2	Biochemistry
TORCH Screen (Toxo, Rubella, CMV, HSV)	1 mL	Red microtainer x2	Microbiology
Toxoplasmosis PCR	1 mL	Adult Lavender EDTA	Microbiology sends to National Reference Centre for Parasitology
Vancomycin	0.5 mL	Red microtainer	Biochemistry
Vitamin D 1, 25 Dihydroxy	1 mL	Green microtainer x2	Biochemistry
Vitamin D, 25 Hydroxy	0.5 mL	Green microtainer x1	Biochemistry
VDRL	1 mL	Red microtainer x2	Microbiology
VSRL CSF	0.5 mL	CSF container	Microbiology