

Neonatal Specimen Volumes

Commonly ordered tests

IMPORTANT: Elevated hematocrit levels in infants may cause decreased serum levels and require the collection of additional specimen volume.

Fill volumes for microtainers:

Gold top: 400-600uL

Lavender top: 250-500uL

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[Maximum Blood Volumes Pediatric and](#)

[Neonatal Patients v.5](#)

Call 08242 for assistance

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TEST	COLLECTION TUBE	VOLUME
Ammonia	Pink Top (On Ice) Full size tube	1.0 mL Microtainer tube will be rejected.
Beta Hydroxybutyrate/ Hydroxybutyric Acid	Gold Top 	500 uL – 1 full microtainer
Bilirubin	Gold Top 	250 uL
BMP	Gold Top 	500 uL – 1 full microtainer
CBC w/Diff	Lavender Top 	500 uL – 1 full microtainer
CMP	Gold Top 	1000 uL – 2 full microtainers
Coags (APTT, D-Dimer, Fibrinogen, PT/INR)	Contact the lab (08242) for special low volume clear tubes. A calculation using the patient's hematocrit value may be required	Dependent upon patient hematocrit. All four tests may require up to two full tubes.
Cortisol (Random, AM or PM)	Gold Top 	900 uL – 2 full microtainers
CRP/CRP High Sensitivity	Gold Top 	500 uL – 1 full microtainer
Free T4	Gold Top 	900 uL – 2 full microtainers
Growth Hormone, Ref Lab	SST Full size tube 	0.5 mL of blood (note, this volume does not allow for repeat testing)
IGF-BP3, Ref Lab	SST Full size tube 	0.5 mL of blood (note, this volume does not allow for repeat testing)
Insulin in House	Gold Top 	1000 uL (1.0 mL) - 2 full microtainers
Liver Profile	Gold Top 	500 uL – 1 full microtainer
Microarray	Green no gel, Sodium or Lithium Heparin Full size tube 	2.0 mL blood (note buccal swab specimens are acceptable, and kits are available from the lab– call 08242)
Neonatal RPR	Gold Top 	500 uL – 1 full microtainer
PEDS Eval	Lavender Top 	2 full Lavender microtainers
Phenobarbital Level	Gold Top 	500 uL – 1 full microtainer
Triglyceride	Gold Top 	500 uL – 1 full microtainer
TSH	Gold Top 	900 uL – 2 full microtainers
Type and Screen	Lavender Top 	2 full Lavender microtainers
Vancomycin Trough	Gold Top 	500 uL – 1 full microtainer
Vitamin D 25-Hydroxy	Gold Top 	1000 uL (1.0 mL) – 2 full microtainers