

95536.3301 NICU Lab Volumes Reference

Copy of version 5.0 (approved and current)

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Location Laboratory Test Directory

Organization LGH Main Lab - Lancaster General Hospital

Author

Lisa Rossi

Approval and Periodic Review Signatures

Type	Description	Date	Version	Performed By	Notes
Approval	Lab Director	4/11/2025	5.0	<i>Dr. Bruce King</i> Bruce King	
Approval	Core Laboratory Manager	3/31/2025	5.0	<i>Lisa Rossi</i> Lisa Rossi	
Approval	Manager Laboratory Operations	3/31/2025	5.0	<i>Lori L. Topper</i> Lori Topper	

Signatures from prior revisions are not listed.

Version History

Version	Status	Type	Date Added	Date Effective	Date Retired
5.0	Approved and Current	Major revision	3/31/2025	4/11/2025	Indefinite

Linked Documents

- 95536.681 Pediatric and Neonatal Specimens

NICU Lab Volumes Reference

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4/11/2025

NICU TEST VOLUME REFERENCE

Lab Name	Tube Type / Color	Quantity (mLs) required	# and color of tube	Special Handling of Lab
If baby has a high hematocrit (>50) collect an additional microtainer (a microtainer gold top hold 0.6 mL's of blood when completely filled)				
CMP	gold	0.25 mL serum	1 full gold-top microtainer tube	
CRP	gold	0.25 mL serum	1 full gold-top microtainer tube	
T3	gold	0.5 mL serum	2 full gold-top microtainer tubes	
FT4	gold	0.5 mL serum	2 full gold-top microtainer tubes	Can be shared - TSH & FT4
TSH	gold	0.5 mL serum	2 full gold-top microtainer tubes	Can be shared - TSH & FT4
Ionized calcium	gold	0.6 mL serum	Cannot be done by heelstick	Cannot be shared with in-house labs, tube must remain unopened
ISTATs cG8	NA	95uL for a syringe draw 95uL balanced heparin capillary tube		
ISTATs Glucose	NA	65uL for a syringe draw 65uL balanced heparin capillary tube		
Lactic Acid	gray top		1 gray top tube	Collect on ice
Uric Acid	gold	0.25 mL serum	1 full gold-top microtainer tube	
Albumin	gold	0.25 mL serum	1 full gold-top microtainer tube	
Cortisol	gold	0.5 mL serum	2 full gold-top microtainer tubes	
Folate(RBC)	2 fingerstick lavenders	2 fingerstick lavenders		keep one protected from light
Folate (serum)	gold	0.5 mL serum	2 full gold-top microtainer tubes	
Ammonia	green- lithium heparin	0.25 mL plasma	1 full green-top microtainer tube	Send down on ice
Insulin	gold	0.5 mL serum	2 full gold-top microtainer tubes	
Lipase	gold	0.25 mL serum	1 full gold-top microtainer tube	
Pro-BNP	gold	0.5 mL serum	2 full gold-top microtainer tubes	
Parathyroid Hormone	inhouse- gold	0.5 mL serum	2 full gold-top microtainer tubes	
Caffeine	red	0.2 SERUM	1 full red-top microtainer tube	
Iron	gold	0.25 mL serum	1 full gold-top microtainer tube	
Alk Phos	gold	0.25 mL serum	1 full gold-top microtainer tube	
NOTE: For all of the coagulation tests listed below, if HCT is >55, must adjust anticoagulant in tube... call the Lab.				
PT	light blue	1.8 mL blue top tube (must be full)		May be combined in one tube - tube MUST be full.
PTT	light blue	1.8 mL blue top tube (must be full)		
Fibrinogen	light blue	1.8 mL blue top tube (must be full)		
D-Dimer	light blue	1.8 mL blue top tube (must be full)		
Factor II Assay	light blue	1.8 mL blue top tube (must be full)		
Factor V Assay	light blue	1.8 mL blue top tube (must be full)		
Factor VII Assay	light blue	1.8 mL blue top tube (must be full)		
Factor VIII Assay	light blue	1.8 mL blue top tube (must be full)		May be combined with Factor IX Assay. Call WBH lab ahead when scheduled bc sample is only good for 4 hrs. Tube must be full.
Factor X Assay	light blue	1.8 mL blue top tube (must be full)		
Factor IX Assay	light blue	1.8 mL blue top tube (must be full)		May be combined with Factor VIII Assay. Call WBH lab ahead when scheduled bc sample is only good for 4 hrs.
Heparin anti-Xa	light blue	1.8 mL blue top tube (must be full)		call WBH lab ahead when scheduled bc sample is only good for 4 hrs.
Drugs				

Digoxin	gold	0.25 mL serum	1 full gold-top microtainer tube	
Gentamicin peak	gold	0.25 mL serum	1 full gold-top microtainer tube	
Gentamicin trough	gold	0.25 mL serum	1 full gold-top microtainer tube	
Vancomycin	gold	0.25 mL serum	1 full gold-top microtainer tube	
Phenobarbital	gold	0.25 mL serum	1 full gold-top microtainer tube	
Phenytoin	gold	0.25 mL serum	1 full gold-top microtainer tube	
Theophylline	gold	0.25 mL serum	1 full gold-top microtainer tube	
Dilantin	gold	same as Phenytoin		
Less Commonly Ordered Tests				
AST	gold	0.25 mL serum	1 full gold-top microtainer tube	
ALT	gold	0.25 mL serum	1 full gold-top microtainer tube	
Amino Acid Profile	Green Top	0.25 mL plasma (FROZEN)	1 full green-top microtainer tube	Maybe collected in Sodium or Lithium Heparin
Chromosomes	Green Sodium Heparin	2mL whole blood		
FISH Panel	green- sodium heparin	1 mL whole blood		
HIV PCR Quantative	lavender	1 mL plasma	4 lavender top microtainer tube	HIV-1 DNA Qualitative (order as UNID): 2 lavender top microtainers (.5 mL)
HSV 1, 2 DNA PCR	lavender	0.5 mL whole blood	1 full lavender top microtainer tube	
IGA (Immunoglobulin A)	gold	0.5 SERUM	2 full gold-top microtainer tubes	
IGD	gold	0.5 SERUM	2 full gold-top microtainer tubes	
IGG	gold	0.5 SERUM	2 full gold-top microtainer tubes	
IGM	gold	0.5 SERUM	2 full gold-top microtainer tubes	
Microarray	Green Sodium Heparin	2 mL whole blood	1 - 2 full green-top microtainer tube (or lavender).	2 mL is preferred, 1mL may be accepted. Sodium heparin preferred, lavender is acceptable
RPR	gold	0.6 mL serum	2 full gold-top microtainer tubes	
Testosterone (Total)	red	0.5 mL serum	2 full gold-top microtainer tubes	
Testosterone (Free)	red	1.3 mL serum	3 full gold-top microtainer tubes	
Vitamin B12	gold	0.5 SERUM	2 full gold-top microtainer tubes	
Vitamin D, 25 HYDROXY	gold	0.5 SERUM	2 full gold-top microtainer tubes	
Vitamin D 1, 25 Dihydroxy	gold	0.8 SERUM	2 full gold-top microtainer tubes	
Vitamin K	lavender	1.5 ml of plasma, 3 lav tops		Protect from light, needs to be centrifuge and seperated within 1 hour of collection
Zika	Call state lab	Call state lab		1-610-280-3464, the state has a protocol
Blood Bank				
Type & Screen	lav	EDTA Plasma and whole blood	2 lavender top microtainer tubes	