

Quick Reference Guide - Optimal Reproductive/Genetic Specimen Requirements

Client Service: (800) 848-4436

TEST CATEGORIES	AMNIOTIC FLUID	CHORIONIC VILLI (CVS)	BLOOD	TISSUE (POC, SKIN BX, ETC.)	MOUTHWASH
<b>CYTOGENETICS</b>	Two 15ml orange screw-top polypropylene tubes, one small AFP tube. Discard first 2ml; then 15-25ml (less if early amnio); last 2ml for AFP. Do <b>not</b> centrifuge for any reason.	10-20 mg in laboratory-provided screw-top tubes with sterile transport medium.	Green-top (sodium heparin) tubes: Adult: 5-10ml Child: 2-5ml (less for newborn) PUBS: 1-2ml	Laboratory-provided screw-top tubes with sterile transport medium. 3-4mm biopsy or 50-100 mg of each tissue*	
<b>CYTOGENETICS with INSIGHT (FISH for 13, 18, 21, X &amp; Y)</b>	Two 15ml orange screw-top polypropylene tubes, one small AFP tube. Discard first 2ml; then 15ml for cyto; then 5ml for InSight; last 2ml for AFP (minimum 18ml non-bloody fluid total). Do <b>not</b> centrifuge for any reason.	15-25 mg in laboratory-provided screw-top tubes with sterile transport medium.	Green-top (sodium heparin) tubes: Newborn: 1-2ml PUBS: 1-2ml		
<b>CYTOGENETICS with DNA</b>	Two to three 15ml orange screw-top polypropylene tubes, one small AFP tube. Discard first 2ml; then 25-30ml; last 2ml for AFP. Do <b>not</b> centrifuge for any reason. <b>MATERNAL BLOOD SAMPLE REQUIRED.</b>	30-40 mg in laboratory-provided screw-top tubes with sterile transport medium. <b>MATERNAL BLOOD SAMPLE REQUIRED.</b>	<b>CYTO:</b> Green-top (sodium heparin) tube: Child: 2-5ml (less for newborn); PUBS: 1-2ml <b>DNA:</b> Yellow-top (ACD-A) or lavender top (EDTA) tube: Child 5-7ml (less for newborn) PUBS: 1-2ml		
<b>DNA TESTING ONLY</b>	Discard first 2ml; then 10ml in orange screw-top polypropylene tube; or 1 or 2 T-25 flask(s) of confluent cells. <b>MATERNAL BLOOD SAMPLE REQUIRED.</b>	10-30 mg in laboratory-provided screw-top tubes with sterile transport medium; or 1 or 2 T-25 flask(s) of confluent cells. <b>MATERNAL BLOOD SAMPLE REQUIRED.</b>	Yellow-top (ACD-A) or lavender top (EDTA) tube: Adult 10-20ml; Child 5-7ml. Guthrie card: completely fill MINIMUM of three preprinted circles. **		10ml of Scope® mouthwash rinsed into 50 ml orange-top tube (not available for all DNA tests).
<b>TAY-SACHS CARRIER TESTING BY ENZYME ANALYSIS</b>			Yellow-top (ACD-A) or lavender top (EDTA) tube: Adult: 10ml whole blood (two 10ml tubes for both enzyme and DNA analysis)		
<b>MATERNAL SERUM SCREENING, AFP4, AFP3, FIRSTSCREEN, INTEGRATEDSCREEN, MSAFP, SEQUENTIALSCREEN, SERUMINTEGRATEDSCREEN</b>			Serum: 2-3 ml in AFP tube (unhemolyzed) Whole blood: 9.5 ml in SST; allow to clot, centrifuge, or 10 ml in red-top clot tube. Guthrie card (Available for first trimester samples for FirstScreen, IntegratedScreen, SerumIntegratedScreen, and SequentialScreen only): completely fill MINIMUM of 3 preprinted circles. **		
<b>FISH</b>	If amniotic fluid sent for chromosome analysis, no additional sample required; otherwise, fixed cell pellet, or 5-6 slides of fixed metaphase cell preparations.	If CVS sent for chromosome analysis, no additional sample required; otherwise, fixed cell pellet, or 5-6 slides of fixed metaphase cell preparations	If blood sent for chromosome analysis, no additional sample required; otherwise, fixed cell pellet, or 5-6 slides of fixed metaphase cell preparations.	If tissue sent for chromosome analysis, no additional sample required; otherwise, fixed cell pellet, or 5-6 slides of fixed metaphase cell preparations.	

\*In the absence of Genzyme Genetics tubes, use any sterile screw-top container with tissue culture medium or Hanks Balanced Salt Solution and add antibiotics: Penicillin/Streptomycin (10 IU/ml/10 ug/ml) or gentamycin (0.05 ug/ml)

\*\*Guthrie card not available for all DNA tests. A minimum of six filled circles is required if a Guthrie card is sent for both first trimester screening and DNA testing.

**PLEASE NOTE:**

- Use sterile technique; close tubes tightly
- Label all specimen tubes
- Do **not** freeze specimens
- Close shipping canisters tightly; enclose all paperwork
- For long distance shipping: In hot weather, enclose refrigerated (**not** frozen) gel pack in styrofoam box; in cold weather, run hot water over gel pack for 3-5 min and enclose; ship specimens within 24 hours via FedEx (Priority and Saturday delivery) and contact Client Service to notify us of air bill tracking number
- For local delivery, call Client Service to arrange local courier pick up service
- Contact Client Service (800-848-4436) if you should have any additional questions

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