## Cytogenetic Specimen Requirements

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<th>Test name</th>
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| **Karyotype** *(chromosome analysis)* | - Whole blood: One heparinized green top, 5-7 mls;  
- Bone Marrow: One heparinized green top, 2.5 mls;  
- Amniotic fluid: 18-20 mls;  
- Chorionic villus specimen: sample in tissue culture media;  
- Skin or other tissue: sample in saline or other preservative-free media | Blood on child: 3 mls;  
Blood on infant: 2-2.5 mls;  
Call if additional testing is required |
| **FISH (Fluorescent *In Situ* Hybridization) for following syndromes:**  
  - Williams  
  - Prader-Willi  
  - Angelman  
  - Miller-Dieker  
  - Smith-Magenis  
  - DiGeorge | Whole blood: One heparinized green top, 5-7 mls | If ordered at the same time as chromosomes, one green-top tube of the appropriate amount, as indicated above, is sufficient. *FISH is never a stand alone test- chromosomes must be done along with FISH or prior to.* |
| **Telomeric FISH** | Send out | |
| **FISH for Hematological Malignancies** | Whole blood: One heparinized green top, 5-7 mls;  
Bone Marrow: One heparinized green top, 2-2.5 mls | If ordered at the same time as chromosomes, one green-top tube is sufficient. |

*ALL CYTO/SERUM SAMPLES ARE TO BE REFRIGERATED IF IMMEDIATE DELIVERY IS NOT POSSIBLE*