

Cytogenetic Specimen Requirements

Test name	Specimen type	Notes
<p style="text-align: center;">Karyotype (chromosome analysis)</p>	<ul style="list-style-type: none"> • Whole blood: One heparinized green top, 5-7 mls; • Bone Marrow: One heparinized green top, 2-2.5 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 	<p style="text-align: center;">Blood on child: 3 mls; Blood on infant: 2-2.5 mls</p> <p style="text-align: center;">Call if additional testing is required</p>
<p>FISH (Fluorescent <i>In Situ</i> Hybridization) for following syndromes:</p> <ul style="list-style-type: none"> • Williams • Prader-Willi • Angelman • Miller-Dieker • Smith-Magenis • DiGeorge 	<p style="text-align: center;">Whole blood: One heparinized green top, 5-7 mls</p>	<p>If ordered at the same time as chromosomes, one green-top tube of the appropriate amount, as indicated above, is sufficient. <i>FISH is never a stand alone test- chromosomes must be done along with FISH or prior to.</i></p>
<p>Telomeric FISH</p>		<p>Send out</p>
<p style="text-align: center;">FISH for Hematological Malignancies</p>	<ul style="list-style-type: none"> • Whole blood: One heparinized green top, 5-7 mls; • Bone Marrow: One heparinized green top, 2-2.5 mls 	<p>If ordered at the same time as chromosomes, one green-top tube is sufficient.</p>

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