
 Eastern Health Laboratory Medicine	Section: Management System\Eastern Health\Genetics\Collection Manual\		
	Title: Cytogenetics Specimen Collection Instructions	Number: 11709	Version: 1.0
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Cytogenetics Specimen Collection Instructions

Requisitions must be sent with all samples (to access requisitions online see below)

All samples are to be sent immediately to the **Cytogenetics Laboratory, Room 3M500 Craig Dobbin Genetics Research Centre or to Lab Office**. Please call us at 777-4532 if there are any questions about sample collection.

Sample Type	Collection	Collection & Processing	Shipping & Preferred Condition
Whole Blood (Sodium heparin) 	Sodium heparin (dark green top tube)	<ul style="list-style-type: none"> ➤ Infants and young children 2-3 ml (minimum 1.2 ml). ➤ Children 2-10 years old: 3-5 ml. ➤ Adults: 5-8 ml. Mix Well.	Ship sample at room temperature for receipt at lab within 24 hours of collection. Do not freeze.
Bone Marrow	Sodium heparin (dark green top tube)	Collect 1-5 ml of bone marrow (preferably 2 nd /3 rd draw). Mix well.	Ship sample ASAP at room temperature for receipt at lab within 24 hours. Do not freeze.
Products of Conception (POC) Skin Biopsy Tumor	Sterile container with sterile transport media such as: RPMI, flow media, or Hanks Solution . Use sterile saline if sterile media is not available.	1-2 cm of, skin, cartilage, POC, or placental tissue placed in separate sterile containers with transport media. Specify tissue type collected. Avoid collecting chorionic villi or placenta if possible. Tissues fixed in formalin cannot be used.	Ship sample at room temperature ASAP for receipt at lab within 24 hours. Refrigerate until time of shipment. Do not freeze. Please notify the Cytogenetics Lab (777-4793) before any tissue is sent. When a tissue is scheduled to arrive outside of regular working hours (M-F 8:00-4:00) leave a message for the lab staff at 777-4793.
Amniotic Fluid	15 ml sterile conical centrifuge tube	15-25 ml fluid, Place in 2-3 specimen tubes.	Preferred gestational age 15 to 24 weeks. Must be received in a securely closed, sterile container. Ship sample at room temperature for receipt at lab within 24 hours. Do not freeze.
Cord Blood	Same as whole blood	Please contact lab at 777-4532	Same as whole blood.

Constitutional Cytogenetic requisitions can be found on Eastern Health's webpage (<http://www.easternhealth.ca/>). On the main webpage, go to "For Health Professionals" → "Eastern Health Forms and Resources" located on the left. Under the "Laboratory Medicine" heading, select "**Chromosome Requisition for Constitutional Study**" or "**Cytogenetics for Amniocentesis**"
 For hematology specimens, go to <http://pulse.easternhealth.ca>. Under forms, searching "Genetics", you will find "**SPECIAL HEMATOLOGY ADULT BONE MARROW, FLOW CYTOMETRY AND GENETICS REQUISITION**"