

# Cytogenetics Specimen Collection

SAMPLE TYPE	CHROMOSOME / FISH STUDIES	CHROMOSOMAL MICROARRAY (CMA) ANALYSIS
Amniotic Fluid	20 ml amniotic fluid in a sterile tissue culture (15 ml conical) tubes. Discard first 2 ml.	Call Cytogenetics Laboratory
Chorionic Villi	10-30 mg villi in Hanks Balanced Salt Solution (HBSS) or sterile saline.	Call Cytogenetics Laboratory
Fetal Tissue	1 cm <sup>3</sup> internal tissue or 3 mm <sup>3</sup> skin biopsy (from a central location such as buttock or upper thigh) in sterile saline, RPMI or HBSS. <b>*Refrigerate if not sending same day. Must send within 48 hr.</b> <b>NOTE: Do not place specimen in formalin. Do not send entire fetus.</b>	1 cm <sup>3</sup> internal tissue or 3 mm <sup>3</sup> skin biopsy (from a central location such as buttock or upper thigh) in sterile saline, RPMI or HBSS. <b>*Refrigerate if not sending same day. Must send within 48 hr.</b> <b>NOTE: Do not place specimen in formalin. Do not send entire fetus.</b>
Placental Tissue	30 mg chorionic villi (preferred) or 50 mg placenta in sterile saline, RPMI or HBSS. <b>*Refrigerate if not sending same day. Must send within 48 hr.</b> <b>NOTE: Do not place specimen in formalin. Do not send entire placenta.</b>	30 mg chorionic villi (preferred) or 50 mg placenta in sterile saline, RPMI or HBSS. <b>*Refrigerate if not sending same day. Must send within 48 hr.</b> <b>NOTE: Do not place specimen in formalin. Do not send entire placenta.</b>
Skin Biopsy	3 mm <sup>3</sup> skin biopsy in sterile saline, RPMI or HBSS <b>NOTE: Do not place specimen in formalin.</b>	3 mm <sup>3</sup> skin biopsy in sterile saline, RPMI or HBSS <b>NOTE: Do not place specimen in formalin.</b>
Peripheral Blood or Cord Blood	2-5 ml whole blood in <b>sodium heparin tube</b>	2-5 ml whole blood each in <b>sodium heparin <u>and</u> EDTA tubes</b>
Percutaneous Umbilical Blood Sampling	1-2 ml whole blood in <b>sodium heparin tube</b>	1-2 ml whole blood each in <b>sodium heparin <u>and</u> EDTA tubes</b>
Bone Marrow	2-5 ml bone marrow in sterile <b>sodium heparin</b> syringe. Transfer to a sterile tube.	Call Cytogenetics Laboratory
Bone Core	10 mm bone marrow core in sterile culture medium or saline.	Call Cytogenetics Laboratory
Leukemic Blood	5 ml whole blood in <b>sodium heparin tube.</b>	Call Cytogenetics Laboratory
Lymph Node	5 mm <sup>3</sup> involved tissue in sterile culture medium or saline. <b>Send within 24 hr.</b>	Call Cytogenetics Laboratory
Malignant Tissue	5 mm <sup>3</sup> involved tissue (solid tumor or other) in sterile culture medium or saline.	Call Cytogenetics Laboratory
Urine	> 30 cc in a sterile collection cup. <b>*Refrigerate if not sending same day. Must send within 24 hr.</b>	NA
Maternal Blood Sample	NA	3-5 ml whole blood in <b>EDTA tube</b> for maternal cell contamination (MCC) studies for CMA on prenatal or POC samples.

**\*Specimens should be kept at room temperature unless noted.**