

UPMC Cytogenetics Laboratory Sample Requirements

Label all tubes/flasks with patient name and date of birth, enclose a <u>fully completed</u> **Cytogenetics Test Requisition** form. Containers can be wrapped with Parafilm to prevent leakage during transport. Samples should be shipped at room temperature. Delayed shipment of sample or inappropriate temperatures may result in longer processing time or cell growth failure. Please contact the laboratory at <u>PittCytogenetics@upmc.edu</u> or at 412-641-5558 for further clarification or other questions.

QUIREMENTS YPE with or w/o AneuVysion FISH Collection Instructions Collect tissue in a sterile tube containing culture medium,			
Collection Instructions			
Collect tissue in a sterile tube containing culture medium.			
sterile saline or balanced salt solution.			
Discard 1 st few cc's of fluid drawn to avoid maternal cells. With a 2nd syringe withdraw fluid and place in sterile tube with screw top lid.			
PRENATAL DIAGNOSIS- KARYOTYPE, FISH, AND MICROARRAY (aCGH)			
Collection Instructions			
Collect tissue in a sterile tube containing culture medium, sterile saline or balanced salt solution.			
Discard 1 st few cc's of fluid drawn to avoid maternal cells. With a 2 nd syringe withdraw fluid and place in sterile tube(s) with screw top lid.			
POSTNATAL/ADULT KARYOTYPING AND FISH			
Collection Instructions			
One green top (sodium heparin) tube is required for karyotyping and/or FISH. Do NOT collect in lithium heparin tubes!			
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POSTNATAL/ADULT FISH Specimen Types Sample Volume Collection Instructions			
Collect in a sterile plastic urine collection container with a secure			
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CONSTITUTIONAL KARYOTYPING, FISH AND MICROARRAY (aCGH)			
Specimen Types	Sample Volume	Collection Instructions	
Peripheral Blood	For adults and older children: 5cc whole blood For infants and young children: 1-3cc whole blood	One green top tube (sodium heparin) and one purple top tube (1X EDTA) each containing amount listed in sample volume. Do not use lithium heparin tubes! (NOTE: Green top tube is required even if microarray is the only test being ordered in case follow-up FISH testing is required)	
Fetal Tissue, Placental Villi, or Skin Biopsy	1-2cm³ biopsy. Send larger samples of placental tissue if possible as this often contains maternal tissue that requires separation from fetal tissue.	Tissue should be obtained in an aseptic manner using sterile instruments and placed in a sterile tube or container with physiological saline or balanced salt solution to keep the sample moist. Do not place tissues in formalin or water! If storing overnight prior to shipping, please refrigerate.	
ONCOLOGY KARYOTYPE with or w/o FISH			
Specimen Types	Sample Requirements	Collection Instructions	
Bone Marrow or Peripheral Blood	Min. 3cc preferred, if possible (min. 1cc)	Specimen should be drawn in a heparinized syringe and placed in a green top (sodium heparin) tube. Do NOT collect in lithium heparin tubes!	
Solid Tumors	1-2cm ³ biopsy sample (a smaller piece will be used if this is not possible)	Tissue should be obtained in an aseptic manner using sterile instruments and placed in a sterile tube or container with physiological saline or balanced salt solution to keep the sample moist. Do not place tissues in formalin or water!	
ONCOLOGY INTEGRATED PACKAGE (karyotype, onc array, and/or FISH)			
Specimen Types	Sample Requirements	Collection Instructions	
Bone Marrow or Peripheral Blood	Min. 3cc preferred, if possible (min. 1cc)	Specimen should be drawn in a heparinized syringe and placed in a green top (sodium heparin) tube. An additional purple top (EDTA) tube is also preferred. Do NOT collect in lithium heparin tubes!	