

SAMPLE REQUIREMENTS
PRENATAL DIAGNOSIS- KARYOTYPE with or w/o AneuVysion FISH

Specimen Types	Sample Volume	Collection Instructions
Chorionic villi	Min. 10-15 mg of chorionic villus	Collect tissue in a sterile tube containing culture medium, sterile saline or balanced salt solution
Amniotic Fluid	Min. 20cc of fluid	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

Specimen Types	Sample Volume	Collection Instructions
Chorionic villi	Min. 20-25mg of chorionic villus	Collect tissue in a sterile tube containing culture medium, sterile saline or balanced salt solution
Amniotic Fluid	Min. 30cc of fluid	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.

POSTNATAL/ADULT KARYOTYPING AND FISH

Specimen Types	Sample Volume	Collection Instructions
Peripheral Blood	For adults and older children: 5 cc whole blood For infants and young children: 1-3 cc whole blood	One green top (sodium heparin) tube required for karyotyping and/or FISH <i>Do NOT collect in lithium heparin tubes!</i>

CONSTITUTIONAL KARYOTYPING, FISH AND MICROARRAY

Specimen Types	Sample Volume	Collection Instructions
Peripheral Blood	For adults and older children: 5 cc whole blood For infants and young children: 1-3 cc whole blood	1 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	1-2 cm3 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! If storing overnight prior to shipping, please refrigerate!

ONCOLOGY KARYOTYPE with or w/o FISH

Specimen Types	Sample Volume	Collection Instructions
Bone marrow or Peripheral Blood	Min. 3cc preferred, if possible	Specimen should be drawn in a heparinized syringe and placed in a green top (sodium heparin) tube or in a sterile tube containing transport medium with added heparin to prevent clotting. Do NOT collect in lithium heparin tubes!
Solid neoplastic tissue	1-2 cm3 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!

GENERAL SPECIMEN INFORMATION:

Label all tubes/flasks with patient name and date of birth, and enclose a fully completed **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 PCL laboratory at 412-641-5558 for further clarification or other questions.