



## Cytogenetics and Genomics Sample Collection

### Peripheral Blood\*\*

**\*\*Keep blood samples at room temperature and deliver to laboratory as soon as possible**

Adults: 10ml whole blood preservative-free sodium heparin (green top vacutainer)

Infants: 1-3ml whole blood in preservative-free sodium heparin (green top vacutainer) OR in a sterile heparinized syringe

Array CGH: (2 tubes of blood **REQUIRED**) 3-5ml whole blood in EDTA (purple top) **AND** 3-5ml whole blood in sodium heparin (green top)

Y-PCR for male infertility: 5ml whole blood in EDTA (purple top vacutainer)

NOTE: For SCE, X Inactivation and Breakage studies please provide a control sample  
Call laboratory at 206-598-4488 for questions

### Bone Marrow\*\*

**\*\*Keep bone marrow samples at room temperature and deliver to laboratory as soon as possible**

Collect up to 5ml of bone marrow in preservative-free sodium heparin (green top vacutainer)  
OR in a sterile heparinized syringe

### Amniotic Fluid\*\*

**\*\*Keep amniotic fluid samples at room temperature and deliver to laboratory as soon as possible**

15-30ml of fluid obtained under sterile conditions should be placed into Corning tissue culture tubes or tubes from a Baxter amniocentesis tray kit. Discard the first 1ml of fluid or use for AFP testing

Array CGH: 15-20ml of amniotic fluid OR 2 T-75 flasks that are 70% confluent

**NOTE:** only if not previously done, karyotype analysis will be performed together with aCGH, requiring 30ml of fluid

### Chorionic Villi\*\*

**\*\*Keep CVS fluid samples at room temperature and deliver to laboratory as soon as possible**

Collect chorionic villi in a sterile flask or tube with sterile tissue culture media  
Call (206) 598-4488 in advance and we will supply the media

Array CGH: 3 T-25 flasks that are 70% confluent OR 2 T-25 flasks that are 100% confluent

### Solid Tissue (Products of Conception, Skin biopsies, Stillbirths)\*\*

**\*\*Keep samples refrigerated or on ice and deliver to laboratory as soon as possible**

Obtain sample under sterile conditions and place in sterile media, such as RPMI or cytogenetics transport media. If there is identifiable tissue in a POC send chorionic villi. Stillbirth - if possible send fascia lata, lung, or kidney. Use separate containers and label the material. If material is small and unidentifiable, send entire sample.

**NOTE: DO NOT SEND ENTIRE FETUS.**

**NOTE: DO NOT PLACE SAMPLE IN FORMALIN, FORMALDEHYDE, ALCOHOL OR SALINE**

Array CGH: 15-20mg of tissue in sterile media or 2 T-75 flasks that are 70% confluent

### DNA Samples

Array CGH: Send 20-30 micrograms of DNA suspended in TE-buffer

### REMINDER LIST

- Call the **Cytogenetics Laboratory** *before* shipping a sample (206) 598-4488
- Label *all* Tubes/Flasks and place in Biohazard bag
- Completely fill out *all* paperwork
- *Incorrect collection, labeling and/or paperwork can delay specimen processing and results*