Prenatal and Pregnancy Loss Specimen Requirements

**Amniotic Fluid**

15 ml  
Chromosome analysis

15 - 20 ml  
Chromosome analysis and FISH

25 - 30 ml  
Chromosome analysis/FISH/chromosomal microarray (CMA)

- Collect in sterile, conical/clear plastic screw-top tubes and store at room temperature.
- Label container with patient’s name and second identifier (e.g. DOB).

**Sub-optimal samples:**
If volume is insufficient, gestational age <16 wks or >30 wks, or sample is compromised (e.g. blood-tinged), CMA testing will be performed on DNA extracted from cultured cells, thus extending turnaround time.

**Chorionic Villus Sampling (CVS)**

15 - 20 mg  
Chromosome analysis/FISH (includes STAT aneuploidy FISH)

20 - 25 mg  
Chromosome analysis/FISH/chromosomal microarray (CMA)

- Collect in sterile plastic screw-top tube filled with sterile transport media at room temperature.
  Transport media is available (upon request).
- Label container with patient’s name and second identifier (e.g. DOB).

**Sub-optimal samples:**
If sample size is insufficient (<10 mg), CMA testing will be performed on DNA extracted from cultured cells, thus extending turnaround time. Turnaround time for chromosome analysis results may also be extended.

**Placenta and Fetal Tissue**

*For all fetal tissue samples, laboratory cannot accept large fetal parts or intact fetuses >12 wks*

1 cm³  
Chromosome analysis with/without chromosomal microarray (CMA)

Placenta (from site of cord insertion) and/or fetal tissue (gonad, kidney, lung, fascia lata)
For CMA, fetal tissue is preferred (gonad, kidney, lung, fascia lata; also umbilical cord).

- Collect aseptically in sterile plastic screw-top tube/container filled with sterile transport media or sterile saline solution. Transport media is available (upon request).
- Label container with patient’s name and second identifier (e.g. DOB).
- If both fetal and placental specimens are available, send in separate containers and label each container with specimen type.
- Store at room temperature; refrigerate if overnight.

**Paraffin Embedded Tissue**

8 – 10 "charged" Slides  
FISH tissue aneuploidy screen

Unstained paraffin embedded tissue sections should be 4-5 micron in thickness
**Percutaneous Umbilical Blood Sampling (PUBS)**

1 – 3 ml  Chromosome analysis
2 – 3 ml  Chromosome analysis and FISH

- Collect in 4 ml **sodium heparin** (green top) tube and store at room temperature.
- Label tube with patient’s name and second identifier (e.g. DOB).

2 ml  Chromosomal microarray (CMA)

- Collect in 4 ml **EDTA** (purple/lavender top) tube and store at room temperature.
- Label tube with patient’s name and second identifier (e.g. DOB).

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