

Institute of Kidney Disease & Research Centre

Baliyalimdi, Asarwa, Ahmedabad - 380 016, Gujarat, India
DEPARTMENT OF OBSTETRICS AND GYNECOLOGY

Instructions for Sampling Tissue for Cytogenetic Analysis

Each specimen must be clearly labeled with patient name and birth date. Requisition must supply name, birth date, gender, physician, originating lab or clinic, and clinical indication. Overnight shipping is acceptable where necessary.

Peripheral Blood

3 - 5 cc blood in green top vacutainer (Sodium Heparin) for adults and 1-2 cc for infants. Do not use lithium heparin or ammonium heparin. Mix well by inverting. Sample to be maintained at R.T. Samples should arrive within 48 hours (preferably 24 hours) of sampling.

Turn Around time: 10 - 20 days.

Amniotic Fluid

15 - 20cc sterile amniotic fluid (avoid blood stained samples) in two sterile screw-capped tubes (centrifuge tubes). First 2ml drawn should be discarded to reduce chance of maternal cell contamination. If prenatal interphase FISH is also desired, a minimum of 20ccs of amniotic fluid is required. Label with (a) Patients name (b) Gestational Age (c) Doctor's Name (d) Date and time drawn. Specimen to be kept at R. T.

Turn Around time: 8- 14days.

Chorionic Villus Studies: -

This is studied at 10 - 13 weeks of pregnancy for various chromosomal & single gene disorders. Collect 15 to 20 mg of good quality chorionic tissue in the provided media in aseptic condition & send it to laboratory.

Turn Around time: one week to 3 weeks depending on the type of investigation.

Product of conception-Fetal Tissue/Placenta:

Selected tissue specimens should be obtained from abortus material. Preferred tissue is placenta from fetal side. In the case of an IUFD, send both fetal tissue (preferably toe tissue) and a specimen of placenta (fetal surface e.g. Villi). Preferably collected in a tissue culture media (RPMI); if not available use Sterile Saline. Fill tube completely. Cap tightly and cover with parafilm. Refrigerate at 4- 8°C until shipment (Do not freeze)

Unacceptable Conditions- Frozen specimens. Intact fetus. Specimens preserved in formalin. Specimens consisting of maternal tissue (decidua) only. Autolyzed or contaminated specimens. If specimen collection time is greater than 72 hours, testing may be compromised. Presence of contamination will hamper the culture. Lab is not responsible for the report of contaminated sample.

Turn Around time: 2 - 3 weeks.

For DNA storage - Fetal thigh tissue (0.5 cm* 0.5 cm) small piece in Normal Saline.

All samples are to be sent immediately to Genetics Laboratory (room no.6018, 6th floor, IKDRC) b/w 9:00am to 5:00pm on Mon-Fri. If sample delivery is delayed, please refrigerate but DO NOT FREEZE. Contact Genetics Laboratory if there are any questions about sample collection ph no. 07922687513, 07922687500. The Genetics Lab should be notified before any tissue is sent for chromosome studies. Requisitions are to be sent with all samples.