

SPECIMEN HANDLING FOR CYTOGENETIC (CHROMOSOME) ANALYSIS

PRODUCTS OF CONCEPTION:

1. Place fetal tissue in RPMI media or sterile saline. DO NOT PLACE IN FORMALIN.
Label the specimen.
In case of fetal demise, fetal tissue such as lung, kidney, liver, or periumbilical skin are suitable for submission.
In cases of fetal demise, the placenta maintains cell viability longer due to maternal blood circulation; therefore, placental specimens are more likely to yield cell growth and therefore a cytogenetic result.
2. Maintain at room temperature. If transit is to be delayed for more than one day, refrigerate the sample. DO NOT FREEZE.

PLACENTAL SAMPLING:

1. Collect the placental tissue sample from near the umbilical cord insertion site beneath the amnion. Remove 5 mm³ of placenta tissue with a sterile surgical knife and dissecting forceps.
2. Place sample in RPMI media or sterile saline. DO NOT PLACE IN FORMALIN.
Label the specimen.
3. Maintain at room temperature. If transit is to be delayed for more than one day, refrigerate the sample. DO NOT FREEZE.