SCHOOL OF MEDICINE
INDIANA UNIVERSITY

Department of Medical and Molecular Genetics
Division of Diagnostic Genomics

Laboratory Test Directory

FISH Analysis –Amniotic Fluid, Chorionic Villus Sampling (CVS) (Prenatal)

CPT Code(s):88235, 88275, 88271(x5)

Service Code (IU Health): 53101234, 53100707, 53100640

Ordering Recommendation: Detection of prenatal (fetal) aneuploidy (13, 18, 21, X, Y) in individuals with advanced maternal age (AMA), family history of genetic abnormality,abnormal prenatal screening, or abnormal fetal ultrasound. Assay offered in conjunction with chromosome study. No additional specimen required.

Synonyms: FISH, prenatal aneuploidy, trisomy, prenatal chromosomes.

Methodology: Fluorescence *in situ* hybridization (FISH) analysis.

Performed: Monday through Friday

Reported: 2 days

Specimen Requirements

Patient Preparation:14 weeks gestation or greater (or alternatively 1 mL/week of gestation for amniocentesis between 12 and 14 weeks) in a sterile syringe).

Collect: Discard first 2-3 mL to avoid maternal cell contamination. Place remaining fluid in 3-4 aliquots, labeled 1st, 2nd, etc in sterile tubes. Sterile Corning centrifuge tubes can be provided upon request.

Specimen Volume:10-25 mL amniotic fluid.

Storage/Transport: Refrigerate. Do not centrifuge.

Unacceptable Conditions: Frozen.Centrifuged.

Remarks: For bloody specimens, use centrifuge tubes containing sodium heparin (can be provided).

Stability: Ambient: 24 hours; Refrigerated: 48 hours; Frozen: Unacceptable

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Interpretive Data

Characteristics:
Negative: Individuals with 2 signals for a probe exhibit a normal signal pattern and are considered negative for a loss/gain of the chromosome tested by the probe.Positive: Individuals with a FISH signal pattern indicating loss/gain of a chromosome signal tested by the probe panel.The normal range varies with each observed signal pattern and is listed in the table below. A report detailing interpretation of results will be provided. Genetic counseling is recommended for individuals with abnormal results.

Reference Range:

Probe Name	Normal Range (% Abnormal Cells)
Xcen, Ycen	0 – 7.0
13q14	0 – 7.0
18cen	0 – 7.0
21q22	0 – 7.0

Limitations: This analysis does not eliminate the possibility of low frequency mosaicism or small structural abnormalities.