

**Patient Name:** Sample Patient  
**Referring Physician:** John Doe, M.D.  
**Specimen #:** 10000000  
**Patient ID:** 20000000-1

**Client #:** 12345

DOB: 00/00/1981  
SSN: \*\*\*-\*\*-\*\*\*\*

Date Collected: 09/07/2012  
Date Received: 09/08/2012  
Lab ID:  
Hospital ID:  
Specimen Type: **POC**

City Hospital  
1 Main Street  
Anywhere, USA

**Indication:** Missed abortion

<b>Metaphases Counted:</b> 3	<b>Number of Cultures:</b> 1	<b>Banding Technique:</b> GTW
<b>Metaphases Analyzed:</b> 3	<b>Subculture:</b> N	<b>Banding Resolution:</b> 400
<b>Metaphases Karyotyped:</b> 2		<b>Dept. Section:</b> POCCVS

**RESULTS: 45,X**  
**Abnormal female karyotype**

#### INTERPRETATION:

Cytogenetic analysis shows an abnormal chromosome complement with 45 chromosomes due to the loss of a sex chromosome, resulting in monosomy X. This is consistent with Turner syndrome.

The loss of a sex chromosome is the most common abnormality found in spontaneous abortions, with more than 99% of 45,X fetuses aborting spontaneously (Nussbaum, R.L., et. al., Thompson & Thompson, Genetics in Medicine, 6th edition. Philadelphia: WB Saunders Co., 2001. Pp. 175).

All available material has been examined and only 3 cells were available for analysis. The number of available cells examined does not meet our laboratory standard of 20.

**RECOMMENDATION:**  
Genetic counseling.

**COMMENT:**  
No other chromosome abnormalities are observed. The standard cytogenetic methodology utilized in this analysis does not routinely detect subtle rearrangements or low-level mosaicism and cannot detect microdeletions. Also, it cannot detect molecular cytogenetic abnormalities (such as microdeletions and microduplications) that may be detectable by microarray analysis.

Integrated Genetics is a business unit of Esoterix Genetic Laboratories, LLC, a wholly-owned subsidiary of Laboratory Corporation of America Holdings.

Signed:

Date: 09/24/2012

Page 1 of 1