

Client: Example Client ABC123  
123 Test Drive  
Salt Lake City, UT 84108  
UNITED STATES

Physician: Doctor, Example

**Patient: Patient, Example**

**DOB** 5/11/2009  
**Gender:** Male  
**Patient Identifiers:** 01234567890ABCD, 012345  
**Visit Number (FIN):** 01234567890ABCD  
**Collection Date:** 00/00/0000 00:00

**Chromosome Analysis - Breakage, Fanconi Anemia, Whole Blood**

ARUP test code 0097688

Chromosome Analysis, Breakage, Fanconi      See Note

**H=High, L=Low, \*=Abnormal, C=Critical**

Unless otherwise indicated, testing performed at:

ARUP LABORATORIES | 800-522-2787 | aruplab.com  
500 Chipeta Way, Salt Lake City, UT 84108-1221  
Jonathan R. Genzen, MD, PhD, Laboratory Director

Patient: Patient, Example  
ARUP Accession: 22-110-119338  
Patient Identifiers: 01234567890ABCD, 012345  
Visit Number (FIN): 01234567890ABCD  
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4848

Test(s) Ordered: Fanconi Breakage

Specimen Submitted: PERIPHERAL BLOOD

Submitted ICD9 Code: none provided

Clinical History: none provided

Breakage analysis\*:

Cells analyzed per clastogen:	50
DEB [0.1 mcg/mL] cells with radials:	0
DEB [0.1 mcg/mL] breaks/cell w/o radials:	0.06
MMC [40 ng/mL] cells with radials:	23
MMC [40 ng/mL] breaks/cell w/o radials:	1.3

\*DEB control values have been previously established in this laboratory. Absent radial figures and <0.5 breaks/cell is considered negative; few or no radials and 0.5-1.0 breaks/cell is considered negative but may indicate need for retesting; multiple radials and >1.0 breaks/cell is considered positive. MMC breakage values are variable and interpreted in the context of concurrent normal control cultures.

Chromosome Analysis:

Peripheral blood was cultured with the clastogenic agents diepoxybutane (DEB) and mitomycin C (MMC) to induce Fanconi Anemia (FA)-related chromosome breakage. Breakage analysis was performed on unbanded chromosome preparations. Fifty cells each from the two culture systems were screened for chromosome breakage with the above results. When compared to negative control values, this analysis is considered positive for FA-related chromosome breakage.

Comments:

DEB-stressed cultures are negative. However, MMC-stressed cultures show elevation in radials and chromosome breaks. The MMC results indicate a positive result for FA-related chromosome breakage. If Fanconi anemia is strongly suspected, repeat breakage analysis and/or molecular Fanconi anemia testing are recommended.

Interpretation:

Positive for Fanconi anemia breakage on MMC cultures only, repeat specimen recommended [see Comments].

I have reviewed the specimen and agree with the interpretation above. ELIZABETH SPITERI Ph.D.  
Electronically signed  
Performed By: Stanford University MC Cytogenetics Lab  
3375 Hillview Ave  
Palo Alto, CA 94304

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VERIFIED/REPORTED DATES				
Procedure	Accession	Collected	Received	Verified/Reported
Chromosome Analysis, Breakage, Fanconi	22-110-119338	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00

END OF CHART

**H=High, L=Low, \*=Abnormal, C=Critical**

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