

Patient: [REDACTED]  
DOB: [REDACTED] Age: [REDACTED] Gender: [REDACTED]  
Patient Identifiers: [REDACTED]  
Visit Number (FIN): [REDACTED]

Client: [REDACTED]  
Physician: [REDACTED]

ARUP Test Code: 2002647  
Collection Date: 12/15/2016  
Received in lab: 12/15/2016  
Completion Date: 12/16/2016

## Interpretation

Specimen Received  
Specimen Type: Bone Marrow  
Reason for Referral: ALL  
Test Performed: FISH, A ALL

### ABNORMAL FISH RESULTS

11q23 (KMT2A; also known as MLL): deletion present  
14q32 (IGH): rearrangement present

### NORMAL FISH RESULTS

8q24 (MYC): rearrangement not detected  
t(9;22)(q34;q11.2) (ABL1;BCR): translocation not detected  
11q23 (KMT2A; also known as MLL): rearrangement not detected  
19p13 (TCF3): rearrangement not detected

### DIAGNOSTIC IMPRESSION:

Fluorescence in situ hybridization (FISH) analysis was performed with the MYC, BCR/ABL1/ASS1 Tricolor, KMT2A (MLL), and IGH probes (Abbott Molecular), and the TCF3 (E2A) probe (Cytocell). 200 interphase cells were scored for each probe combination.

This analysis showed:

- 11q23 deletion involving the KMT2A (MLL) locus in 147/200 (73.5 percent) cells scored,
- IGH rearrangement at 14q32 in 142/200 (71.0 percent) cells scored.

FISH analysis with the remaining probes showed normal results.

Please correlate this result with clinical and other laboratory findings.

### ISCN:

nuc ish(MYCx2)[200],  
(ASS1x2, ABL1x2, BCRx2)[200],  
(KMT2Ax1)[147/200],  
(IGHx2)(3' IGH sep 5' IGHx1)[142/200],  
(TCF3x2)[200]

This result has been reviewed and approved by [REDACTED],  
Ph.D., FACMG  
Electronic Signature

Test developed and characteristics determined by ARUP Laboratories. See Compliance Statement A: [aruplab.com/CS](http://aruplab.com/CS)



Patient: [REDACTED]  
ARUP Accession: 16-350-100206