

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

Physician: Doctor, Example

Patient: Patient, Example

DOB 6/10/1956
Gender: Female
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
Collection Date: 00/00/0000 00:00

Multiple Myeloma Panel by FISH

ARUP test code 3002063

Multiple Myeloma Panel by FISH See Note (Ref Interval: Normal)

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: 23-234-150672
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
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4848

Test Performed: Multiple Myeloma (MM) Panel by FISH (FISHMMP)
Specimen Type: Bone Marrow (CD138+)
Indication for Testing: Anemia, lytic lesions

RESULT

Abnormal FISH Result

1q (CKS1B) Gain: not detected
t(4;14) (IGH-FGFR3) Fusion: not detected
9p (JAK2) Gain: DETECTED
11q (CCND1) Gain: DETECTED
t(11;14) (IGH-CCND1) Fusion: not detected
t(14;16) (IGH-MAF) Fusion: not detected
t(14;20) (IGH-MAFB) Fusion: not detected
17p (TP53) Deletion: not detected

INTERPRETATION

This analysis showed signal patterns consistent with:
- 9p24 (JAK2) gain (4 copies total) in 72/100 (72.0 percent) cells scored.
- 11q13 (CCND1) gain (3 copies total) in 65/100 (65.0 percent) cells scored.

The remaining probes showed normal results.

These findings suggest the presence of a hyperdiploid clonal population. Multiple myeloma with hyperdiploidy is generally associated with standard risk.

Please correlate this result with clinical and other laboratory findings.

Recommendation:

Monitor for positive MMP results by FISH in future studies, order test code 3002737, FISH, Interphase, CD138+ Cells. Please indicate abnormal probes from the current study and include 1q (CKS1B)/17p (TP53) to monitor for secondary high risk changes if clinically warranted.

This analysis was performed with the MM panel probes CKS1B, TP53 and IGH/MAFB (CytoCell), JAK2 (MetaSystems), and IGH/FGFR3, CCND1/IGH, and IGH/MAF (Abbott Molecular). A total of 100 CD138+ sorted cells were scored for each probe.

Cytogenomic Nomenclature (ISCN):

nuc
ish(CKS1B,TP53)x2[100],(FGFR3x2)[100],(JAK2x4)[72/100],(CCND1x3)[65/100],(IGHx2)[100],(MAFxB2)[100],(MAFBx2)[100]

This result has been reviewed and approved by [REDACTED]

A portion of this analysis was performed at the following location(s):
ARUP Laboratories Site CG-MO#1

INTERPRETIVE INFORMATION: Chromosome FISH, Multiple Myeloma Panel

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

EER Multiple Myeloma Panel by FISH

See Note

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

Authorized individuals can access the ARUP
Enhanced Report using the following link:

[REDACTED LINK]

VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
Multiple Myeloma Panel by FISH	23-234-150672	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
EER Multiple Myeloma Panel by FISH	23-234-150672	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

Unless otherwise indicated, testing performed at: