

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

Physician: Doctor, Example

Patient: Patient, Example

DOB: 8/18/1962
Gender: Male
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
Collection Date: 00/00/0000 00:00

Multiple Myeloma Minimum Residual Disease by Flow Cytometry

ARUP test code 3002069

MM MRD Interpretation

See Note

SAMPLE: Bone Marrow

INTERPRETATION:
POSITIVE for plasma cell neoplasm by flow cytometry, accounting for 0.0051% of viable leukocytes (see comment).

COMMENT:
The lack of CD38 in the current study is likely related to Anti-CD38 immunotherapy. Note that flow cytometry typically underestimates the plasma cell fraction and correlation with morphology and immunohistochemistry of the core biopsy is recommended to determine the true disease burden. The lower limit of detection for this assay is estimated to be 0.0024%.

ANALYSIS:
Number of viable cell events collected: 2,048,187
Plasma cells percentage of viable cells: 0.051%
Atypical Plasma cells: 10% of total PCs
Overall plasma cell kappa:lambda ratio: approx. 1:5 (1:4.9)

Abnormal Plasma Cell Phenotype:
Light Chain: Lambda
CD19: Absent
CD56: Aberrant Low to Intermediate
CD27: Normal
CD81: Normal
CD117: Aberrant Low to Intermediate
CD45: Normal
CD38: Decreased to Absent
VS38c: Normal

Viability: 93%
Antigens Examined: cKappa, cLambda, CD19, CD27, CD38, CD45, CD56, CD81, CD117, cVS38c
Number of markers assessed:10

This result has been reviewed and approved by [REDACTED]

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

INTERPRETIVE INFORMATION: Multiple Myeloma MRD
by Flow Cytometry

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.

VERIFIED/REPORTED DATES

| Procedure | Accession | Collected | Received | Verified/Reported |
|-----------------------|---------------|------------------|------------------|-------------------|
| MM MRD Interpretation | 23-144-118264 | 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: