

Patient ID <b>SA00322418</b>	Patient Name <b>TESTINGRNV, MSMRT</b>	Birth Date <b>1980-11-20</b>	Gender <b>M</b>	Age <b>36</b>
Order Number <b>SA00322418</b>	Client Order Number <b>SA00322418</b>	Ordering Physician <b>CLIENT,CLIENT</b>	Report Notes	
Account Information <b>C7028846 DLMP Rochester</b>		Collected <b>26 Jan 2017 12:30</b>		

## mSMART Algorithmic Testing, BM

### Final Diagnosis

1 MCR

Bone marrow, flow cytometric immunophenotyping:

1. Plasma cells: No monotypic.

Comment:

Abnormal plasma cells may be difficult to detect by flow cytometry due to sampling bias and antigen loss in vitro. The lack of detectable plasma cells and/or the detection of only normal (polytypic) plasma cells does not exclude a diagnosis of a plasma cell proliferative disorder. Monotypic (clonal) plasma cells are detected by immunoglobulin light chain restriction, surface immunophenotype, and DNA content. If present, the light chain expressed by the clonal plasma cells is indicated. The percentage of monotypic plasma cells estimated by flow cytometry is affected by specimen processing and antigen loss with specimen aging. Manual differential counting remains the accepted standard for determining the bone marrow plasma cell percentage.

Method:

Plasma cell analysis was performed with antibodies to the following antigens: CD19, CD38, CD45, CD138, kappa and lambda cytoplasmic immunoglobulin light chains and DAPI.

Based on flow cytometric analysis ( $\leq 0.1\%$  monotypic or no monotypic plasma cells), additional cytogenetic studies are not indicated due to insufficient monotypic plasma cells for the test.

Reviewed by: RYAN RITZER

### Monotypic Plasma Cells:

MCR

None detected.

**Reference Value**  
None detected.

**Received:** 27 Jan 2017 14:15

**Reported:** 27 Jan 2017 14:25

### Laboratory Notes

- 1 This test was developed using an analyte specific reagent. Its performance characteristics were determined by Mayo Clinic in a manner consistent with CLIA requirements. This test has not been cleared or approved by the U.S. Food and Drug Administration.

### Performing Site Legend

Code	Laboratory	Address
MCR	Mayo Clinic Laboratories - Rochester Main Campus	200 First Street SW, Rochester, MN 55905