

T- and B-Cell Quantitation and Lymphocyte Proliferation to Mitogens Panel

Patient ID SA00056604	Patient Name SAMPLEREPOR, TCMPF	Birth Date 1966-06-10	Gender F	Age 46
Order Number SA00056604	Client Order Number SA00056604	Ordering Physician Client, Client	Report Notes	
Account Information C7028846 DLMP Rochester		Collected 15 Apr 2013 13:00		

T-Cell with Mitogen Panel

T- and B-Cell QN by Flow Cytometry

CD45 Lymph Count, Flow

1.32 thou/mcL

 MCR
 Reference Value
 0.82–2.84

% CD3 (T Cells)

82 %

 MCR
 Reference Value
 58–86

% CD19 (B Cells)

9 %

 MCR
 Reference Value
 6–24

% CD16+CD56 (NK cells)

7 %

 MCR
 Reference Value
 4–28

% CD4 (Helper Cells)

61 %

 MCR
 Reference Value
 32–64

% CD8 (Supp'r Cells)

21 %

 MCR
 Reference Value
 13–40

CD3 (T Cells)

1083 cells/mcL

 MCR
 Reference Value
 550–2202

CD19 (B Cells)

125 cells/mcL

 MCR
 Reference Value
 70–409

CD16+CD56 (NK cells)

97 cells/mcL

 MCR
 Reference Value
 59–513

CD4 (Helper Cells)

810 cells/mcL

 MCR
 Reference Value
 365–1437

CD8 (Supp'r Cells)

276 cells/mcL

 MCR
 Reference Value
 145–846

H/S Ratio

2.9

 MCR
 Reference Value
 ≥0.9

Lymphocyte Proliferation, Mitogens

Interpretation

MCR

Normal lymphocyte proliferative responses to PHA and PWM.

ADDITIONAL INFORMATION

Data are expressed as % proliferating cells of total specific cell population. The % Day 0 viability of the sample was determined using a flow cytometry assay which includes individual assessment of viable, apoptotic and dead cells. This method differs from the commonly used method of trypan blue dye exclusion which only identifies dead cells, and counts apoptotic cells along with the viable cells, resulting in an apparent higher cell viability. However, apoptotic cells do not contribute to cell proliferation and therefore accurate measurement of only viable

cells provides meaningful information on the cells involved in stimulation and proliferative response. Strongly recommend using "critical ambient shipping boxes" available through Mayo Medical Laboratories (MML) inventory to ensure optimal transport of critical samples used for functional cellular assays.

Viab of Lymphs at Day 0

81.4 %

 MCR
 Reference Value
 ≥75.0

Max Prolif of PWM as % CD45

5.1 %

 MCR
 Reference Value
 ≥4.5

Performing Site Legend

Code	Laboratory	Address
MCR	Mayo Clinic Dept. of Lab Med and Pathology	200 First Street SW, Rochester, MN 55905



Patient ID SA00056604	Patient Name SAMPLEREPOR, TCM	Birth Date 1966-06-10	Gender F	Age 46
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Max Prolif of PWM as % CD3

3.8 %

MCR
Reference Value
≥3.5

Max Prolif of PHA as % CD3

59.4 %

MCR
Reference Value
≥58.5

Max Prolif of PWM as % CD19

4.4 %

MCR
Reference Value
≥3.9

Mitogen Comment

Lymphocyte proliferative responses are affected by sample age. Samples received between 24–48 hours post-collection can show significant decrease in lymphocyte proliferative responses. Caution should be used when interpreting the results and clinical correlation is strongly recommended. Suggest repeat testing when clinically appropriate.

MCR

Max Prolif of PHA as % CD45

51.2 %

MCR
Reference Value
≥49.9

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Reported: 16 Apr 2013 11:36

Laboratory Notes

- 1 Analyte Specific Reagent: This test was developed and its performance characteristics determined by Mayo Clinic. It has not been cleared or approved by the U.S. Food and Drug Administration.

Performing Site Legend

Code	Laboratory	Address
MCR	Mayo Clinic Dept. of Lab Med and Pathology	200 First Street SW, Rochester, MN 55905