

Patient ID <b>SA00056602</b>	Patient Name <b>SAMPLEREP, TCIPF</b>	Birth Date <b>1966-06-10</b>	Gender <b>F</b>	Age <b>46</b>
Order Number <b>SA00056602</b>	Client Order Number <b>SA00056602</b>	Ordering Physician <b>Client, Client</b>	Report Notes	
Account Information <b>C7028846 DLMP Rochester</b>		Collected <b>15 Apr 2013 13:00</b>		

## T-Cell Immune Competence Panel

### T- and B-Cell QN by Flow Cytometry

#### CD45 Lymph Count, Flow

1.36 thou/mcL

**MCR**  
Reference Value  
0.82–2.84

#### CD3 (T Cells)

1050 cells/mcL

**MCR**  
Reference Value  
550–2202

#### % CD3 (T Cells)

77 %

**MCR**  
Reference Value  
58–86

#### CD19 (B Cells)

211 cells/mcL

**MCR**  
Reference Value  
70–409

#### % CD19 (B Cells)

16 %

**MCR**  
Reference Value  
6–24

#### CD16+CD56 (NK cells)

89 cells/mcL

**MCR**  
Reference Value  
59–513

#### % CD16+CD56 (NK cells)

7 %

**MCR**  
Reference Value  
4–28

#### CD4 (Helper Cells)

749 cells/mcL

**MCR**  
Reference Value  
365–1437

#### % CD4 (Helper Cells)

55 %

**MCR**  
Reference Value  
32–64

#### CD8 (Supp'r Cells)

250 cells/mcL

**MCR**  
Reference Value  
145–846

#### % CD8 (Supp'r Cells)

18 %

**MCR**  
Reference Value  
13–40

#### H/S Ratio

3.0

**MCR**  
Reference Value  
≥0.9

### Lymphocyte Proliferation, Mitogens

#### Interpretation

**MCR**

Normal and robust 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

**MCR**

79.4 %

Reference Value  
≥75.0

#### Performing Site Legend

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

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**Max Prolif of PWM as % CD45**

9.2 %

MCR

 Reference Value  
≥4.5

**Max Prolif of PHA as % CD3**

65.8 %

MCR

 Reference Value  
≥58.5

**Max Prolif of PWM as % CD3**

10.1 %

MCR

 Reference Value  
≥3.5

**Mitogen Comment**

MCR

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.

**Max Prolif of PWM as % CD19**

12.5 %

MCR

 Reference Value  
≥3.9

**Max Prolif of PHA as % CD45**

62.1 %

MCR

 Reference Value  
≥49.9

**Lymphocyte Proliferation, Antigens**
**Interpretation**

1 MCR

Normal and robust proliferative responses to antigens - Candida (CA) and Tetanus toxoid (TT).

**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.

**Max Prolif of CA as % CD45**

12.7 %

MCR

 Reference Value  
≥5.7

**Max Prolif of CA as % CD3**

14.3 %

MCR

 Reference Value  
≥3.0

**Max Prolif of TT as % CD45**

22.1 %

MCR

 Reference Value  
≥5.2

**Max Prolif of TT as % CD3**

24.5 %

MCR

 Reference Value  
≥3.3

**Viab of Lymphs at Day 0**

79.4 %

MCR

 Reference Value  
≥75.0

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**Antigen Comment**

MCR

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**Received:** 16 Apr 2013 08:18

**Reported:** 16 Apr 2013 11:34

QA Environment

**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