

Patient ID <b>SA00057306</b>	Patient Name <b>SAMPLEREPOR, LPAGF</b>	Birth Date <b>1966-06-10</b>	Gender <b>F</b>	Age <b>46</b>
Order Number <b>SA00057306</b>	Client Order Number <b>SA00057306</b>	Ordering Physician <b>Client, Client</b>	Report Notes	
Account Information <b>C7028846 DLMP Rochester</b>		Collected <b>08 May 2013 00:00</b>		

## Lymphocyte Proliferation, Antigens

### Interpretation

**1 MCR**

Decreased proliferative response to Candida (CA) and essentially absent proliferation to Tetanus toxoid (TT). The TT result may reflect waning antigen (TT)-specific T cell memory due to time elapsed since vaccination. Recommend re-evaluation 4–6 weeks after TT vaccination, if clinically appropriate. Approximately one-third and 1/4th of healthy adults appear to have diminished responses to CA and TT respectively. Abnormal T cell responses to antigens are diagnostically more sensitive but less specific of impaired T cell function. Antigen proliferation result should always be interpreted in context of patient age, vaccination status (for TT), clinical history and other appropriate immunological evaluation. Day 0 viability was normal and did not contribute to the decreased proliferative response to antigens.

### 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**

**91.3 %**

**Reference Value**  
≥75.0

### Max Prolif of CA as % CD45

**MCR**

 **1.3 %**  
**Low**

**Reference Value**  
≥5.7

### Max Prolif of CA as % CD3

**MCR**

 **1.2 %**  
**Low**

**Reference Value**  
≥3.0

### Max Prolif of TT as % CD45

**MCR**

 **0.7 %**  
**Low**

**Reference Value**  
≥5.2

### Max Prolif of TT as % CD3

**MCR**

 **0.9 %**  
**Low**

**Reference Value**  
≥3.3

### Antigen 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.

**Received:** 09 May 2013 15:22

**Reported:** 13 Jun 2013 14:24

### 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