MAYO CLINIC
Mayo Medical Laboratories

1-800-533-1710

LPMGF

Lymphocyte Proliferation to Mitogens, Blood

Patient ID	Patient Name		Birth Date	Gender	Age
SA00057303	SAMPLEREPORT, LPMGF		1966-06-10	F	46
Order Number	**Client Order Number**	**Ordering Physician**	**Report Notes**		
SA00057303	SA00057303	Client, Client			
Account Information		**Collected**			
C7028846 DLMP Rochester		08 May 2013 00:00			

Lymphocyte Proliferation, Mitogens

Interpretation

[1] 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

85.3 %

Reference Value
≥75.0

Max Prolif of PWM as % CD45

MCR

9.2 %

Reference Value
≥4.5

Max Prolif of PWM as % CD3

MCR

11.7 %

Reference Value
≥3.5

Max Prolif of PWM as % CD19

MCR

14.9 %

Reference Value
≥3.9

Max Prolif of PHA as % CD45

MCR

68.5 %

Reference Value
≥49.9

Max Prolif of PHA as % CD3

MCR

71.6 %

Reference Value
≥58.5

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.

Received: 09 May 2013 15:21 **Reported:** 13 Jun 2013 12:37

For 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