Patient ID	Patient Name		Birth Date	Sex	Age
SAMPLE	PATIENT, TEST		1980-09-22	M	44
Order Number	**Client Order Number**	**Ordering Physician**	**Report Notes**		
SAMPLE	SAMPLE	SAMPLE	Sample Report		
Account Information		**Collected**			
SAMPLE		30 Sep 2024 14:33			

Lymphocyte Proliferation, Mitogens

Interpretation

[1] SDL

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 Clinic Laboratories (MCL) inventory to ensure optimal transport of critical samples used for functional cellular assays.

Viab of Lymphs at Day 0

SDL

85.3 %

Reference Value
≥75.0

Max Prolif of PWM as % CD45

SDL

9.2 %

Reference Value
≥4.5

Max Prolif of PWM as % CD3

SDL

11.7 %

Reference Value
≥3.5

Max Prolif of PWM as % CD19

SDL

14.9 %

Reference Value
≥3.9

Max Prolif of PHA as % CD45

SDL

68.5 %

Reference Value
≥49.9

Max Prolif of PHA as % CD3

SDL

71.6 %

Reference Value
≥58.5

Mitogen Comment

SDL

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: 01 Oct 2024 14:28 **Reported:** 01 Oct 2024 14:33

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	Lab Director	CLIA Certificate
SDL	Mayo Clinic Laboratories - Rochester Superior Drive	3050 Superior Drive NW, Rochester MN 55905	Nikola Baumann Ph.D.	24D1040592