MAYO CLINIC
Mayo Medical Laboratories

Laboratory Service Report 1-800-533-1710

Patient Name	Patient ID	Age	Gender	Order #
SAMPLEREPORT,TCMPF	SA00056604	46	F	SA00056604
Ordering Phys CLIENT,CLIENT				**DOB** 06/10/1966
Client Order # SA00056604	**Account Information**			**Report Notes**
Collected 04/15/2013 13:00	C7028846-DLMP Rochester 3050 Superior Drive Rochester, MN 55901			
Printed 04/22/2013 16:05				

Test	Flag	Results	Unit	Reference Value	Perform Site*
T-Cell with Mitogen Panel			REPORTED 04/16/2013 11:36		
T- and B-Cell QN by Flow Cytometry					
CD45 Lymph Count, Flow		1.32	thou/mcL	0.82-2.84	MCR
% CD3 (T Cells)		82	%	58-86	MCR
% CD19 (B Cells)		9	%	6-24	MCR
% CD16+CD56 (NK cells)		7	%	4-28	MCR
% CD4 (Helper Cells)		61	%	32-64	MCR
% CD8 (Supp'r Cells)		21	%	13-40	MCR
CD3 (T Cells)		1083	cells/mcL	550-2202	MCR
CD19 (B Cells)		125	cells/mcL	70-409	MCR
CD16+CD56 (NK cells)		97	cells/mcL	59-513	MCR
CD4 (Helper Cells)		810	cells/mcL	365-1437	MCR
CD8 (Supp'r Cells)		276	cells/mcL	145-846	MCR
H/S Ratio		2.9		>=0.9	MCR
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.					
Lymphocyte Proliferation, Mitogens					
Interpretation					MCR
Normal lymphocyte proliferative responses to PHA and PWM. 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.					
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.					
Viab of Lymphs at Day 0		81.4	%	>=75.0	MCR
Max Prolif of PWM as % CD45		5.1	%	>=4.5	MCR
Max Prolif of PWM as % CD3		3.8	%	>=3.5	MCR

Performing Site Legend on Last Page of Report

* Report times for Mayo performed tests are CST/CDT

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Max Prolif of PWM as % CD19		4.4	%	>=3.9	MCR
Max Prolif of PHA as % CD45		51.2	%	>=49.9	MCR
Max Prolif of PHA as % CD3		59.4	%	>=58.5	MCR
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.

* Performing Site:

MCR	Mayo Clinic Laboratories - Rochester Main Campus 200 First St SW Rochester, MN 55905	Lab Director:

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