MAYO CLINIC
Mayo Medical Laboratories

Laboratory Service Report 1-800-533-1710

Patient Name	Patient ID	Age	Gender	Order #
SAMPLEREPORT,LPAGF	SA00057306	46	F	SA00057306
Ordering Phys CLIENT,CLIENT				**DOB** 06/10/1966
Client Order # SA00057306	**Account Information**			**Report Notes**
Collected 05/08/2013 00:00	C7028846-DLMP Rochester 3050 Superior Drive Rochester, MN 55901			
Printed 06/13/2013 15:27				

Test	Flag	Results	Unit	Reference Value	Perform Site*
Lymphocyte Proliferation, Antigens					
RECEIVED: 05/09/2013 15:22 **REPORTED:** 06/13/2013 14:24					
Interpretation					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. 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		91.3	%	>=75.0	MCR
Max Prolif of CA as % CD45	L	1.3	%	>=5.7	MCR
Max Prolif of CA as % CD3	L	1.2	%	>=3.0	MCR
Max Prolif of TT as % CD45	L	0.7	%	>=5.2	MCR
Max Prolif of TT as % CD3	L	0.9	%	>=3.3	MCR
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.					

Performing Site Legend on Last Page of Report

Patient Name	Collection Date and Time	Report Status
SAMPLEREPORT,LPAGF	05/08/2013 00:00	Final
		>> Continued on Next Page >>

* Report times for Mayo performed tests are CST/CDT

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>> Accession SA00057306 - Continued From Previous Page <<
>> Do Not Discard <<

* Performing Site:

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

Patient Name	Collection Date and Time	Report Status
SAMPLEREPORT,LPAGF	05/08/2013 00:00	Final
		** End of Report **

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