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**PRACTITIONER**

**DEMOCR, DEMOCR TEST**

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**PATIENT**

**Name:** SAMPLE, REPORT  
**DOB:** 01/21/1952  
**Gender:** M

**ACCESSION #:** 21-1000000  
**REQUISITION #:** T07210000  
**SAMPLE TYPE:** Whole Blood  
**DOCTOR / PATIENT ID:**  
**DATE COLLECTED:** 7/19/2021  
**DATE RECEIVED:** 7/20/2021  
**DATE OF REPORT:** 7/22/2021

**PAGES:** 1 of 1

TEST	Low	In-range	High	Reference Range	Units
<b>The Lymphocyte MAP</b> Comprehensive Lymphocyte Immunophenotyping					
<b>Total Lymphocyte</b>	<b>862</b>			<b>1200-3200</b>	Cells/mcl
% Lymphocyte		34.6		20.0-40.0	%
Total T Cell		565		440-1600	Cells/mcl
% T Cell		65.5		46.0-82.0	%
Total B Cell	60			90-400	Cells/mcl
% B Cell		7.0		6.0-18.0	%
<b>T Cell/B Cell Ratio</b>		<b>9.3</b>		<b>4.0-11.0</b>	Ratio
Total T-Helper (CD4) Cell	416			500-1100	Cells/mcl
% T-Helper (CD4) Cell		48.3		28.0-55.0	%
Total Cytotoxic (CD8) T Cell				200-500	Cells/mcl
% Cytotoxic (CD8) T Cell		13.8		10.0-30.0	%
<b>CD4/CD8 Ratio</b>		<b>3.5</b>		<b>1.0-4.0</b>	Ratio
Total T-Helper-1 Cell		242		150-550	Cells/mcl
% T-Helper-1 Cell		32.0		18.0-38.0	%
Total T-Helper-2 Cell	63			70-150	Cells/mcl
% T-Helper-2 Cell		8.3		6.0-12.0	%
<b>TH1/TH2 Ratio</b>		<b>3.9</b>		<b>1.0-5.0</b>	Ratio
Total T-Helper-17	23			30-90	Cells/mcl
% T-Helper-17		3.0		2.0-7.0	%
Total Regulatory T Cell		27		10-50	Cells/mcl
% Regulatory T Cell		3.5		1.0-4.0	%
<b>Th17/Treg Ratio</b>	<b>0.9</b>			<b>1.0-3.0</b>	Ratio
<b>Total NK Cell</b>		<b>172</b>		<b>60-220</b>	Cells/mcl
% NK Cell			20.0	3.0-15.0	%
Total Cytotoxic NK cells		160		30-200	Cells/mcl
% Cytotoxic NK cells			18.6	2.0-10.0	%
Total NKT		10		10-120	Cells/mcl
% NKT		1.2		1.0-6.0	%

\*A: **Alert value.** Alert value(s) identified which exceeds established limits (high or low) to a degree that may constitute an immediate health risk to the individual or require immediate action on the part of the ordering physician. Cyrex Laboratories' Clinical Consultants are available to discuss by calling (602) 759-1245 to schedule an appointment.

< > symbols are shown when the result is beyond the reportable range. The number shown after symbol represents the minimum or maximum reportable measurement respectively.

Mark G. Kartub, M.D., Medical Director

Cyrex Laboratories is certified under the Clinical Laboratory Improvement Amendments of 1988 ("CLIA") as qualified to perform high-complexity clinical testing. Test result data on its own does not constitute a diagnosis of any disease. Only a physician or qualified healthcare professional should interpret the significance of a clinical lab test or make a diagnosis. This test was developed and its performance characteristics determined by Cyrex Laboratories, LLC. This test is a "lab developed test" and therefore not subject to clearance or approval by the US Food and Drug Administration. The names and titles of tests and arrays are for reference purposes only.