



August 2, 2021

Re: Clinical Testing Change- Update to TCR Alpha/Beta Gamma/Delta Test

Dear Cincinnati Children's Hospital Diagnostic Immunology Lab Clients,

The Diagnostic Immunology Lab has updated the TCR Alpha/Beta Gamma/Delta test to include more specific read-outs of TCR Alpha/Beta and TCR Gamma/Delta expression. The updated test now reports the expression of TCR Alpha/Beta and TCR Gamma/Delta on total CD3+ T cells, CD4+ T cells, CD8+ T cells, and T cells which are CD4- and CD8- ("double negative" T cells, which are the predominant cells which express TCR Gamma/Delta). Please find important parameter, reference range, and ordering information below. All changes are effective August 2, 2021.

Population	Test Parameter:	Reference Range:
Total CD3+ T Cells	% CD4+ T Cells	38.2-81.5
	% CD8+ T Cells	17.0-58.9
	%CD4-CD8- T Cells	0.9-11.6
	%alpha/beta	90.3-100.0
	%gamma/delta	0.6-9.4
CD3+CD4+ T Cells	%alpha/beta	99.6-100.0
	%gamma/delta	0-0-0.1
CD3+CD8+ T Cells	%alpha/beta	93.8-100.0
	%gamma/delta	0.1-6.1
CD3+CD4-CD8- T Cells	%alpha/beta	7.1-62.6
	%gamma/delta	36.0-92.6

Ordering Test: The test name will remain the same, only the Specimen Type will change.

Collection Instructions: EDTA WILL NO LONGER BE AN ACCEPTABLE SAMPLE FOR THIS TEST. SAMPLES SHOULD BE COLLECTED IN GREEN TOP BLOOD COLLECTION TUBES CONTAINING SODIUM HEPARIN. The new test was optimized using blood samples anticoagulated with Sodium Heparin. 3mL whole blood should be collected. The minimum blood volume is 1mL whole blood.

Shipping and Handling Conditions: Please refer to our updated requisition for shipping instructions. Keep samples as whole blood at room temperature for delivery to our lab within 24 hours of collection. Samples should be sent appropriately to maintain proper storage/transport conditions until received in our lab. Whole blood must remain at room temperature after collection until received in our lab. All vials should be labeled with patient name, MRN, DOB, date of sample collection, and anticoagulant.

Please feel free to contact us with any questions you may have.

Thank you,

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