

Bio-Rad BioPlex Go-Live (Autoimmune & Infectious Disease Antibody Testing)

Commencing February 6, 2024, the Chemistry section of the clinical laboratory at William Beaumont University Hospital will perform autoimmune and infectious disease antibody testing on the fully automated Bio-Rad BioPlex platform. The BioPlex instrument uses a multiplex bead array methodology for testing. A list of tests that will be performed on this analyzer is provided below.

- ✓ Specimen collection requirements will not change. Testing on the BioPlex analyzer requires the collection of a gold-top Serum Separator Tube (SST).
- ✓ Updates to test reference intervals/cutoff values are provided in the table below.
- ✓ Any testing offered as part of panel or reflex algorithm will not change.

Reference Intervals

Test Name	Test Code	Units	Negative	Equivocal	Positive
Anti-Double Stranded DNA	LAB5743	IU/mL	≤ 4	5-9	≥ 10
Chromatin Antibody	LAB8595	AI	< 1.0	NA	≥ 1.0
Ribosomal P Antibody	LAB6145	AI	< 1.0	NA	≥ 1.0
Sjogren SSA Antibody	LAB6989	AI	< 1.0	NA	≥ 1.0
Sjogren SSB Antibody	LAB6990	AI	< 1.0	NA	≥ 1.0
Smith Antibody	LAB6987	AI	< 1.0	NA	≥ 1.0
RNP Antibody	LAB6991	AI	< 1.0	NA	≥ 1.0
Scl-70 Antibody	LAB6988	AI	< 1.0	NA	≥ 1.0
Centromere Antibody	LAB5753	AI	< 1.0	NA	≥ 1.0
Jo-1 Antibody	LAB6986	AI	< 1.0	NA	≥ 1.0
Anti-Cardiolipin Antibodies (IgG, IgM)	LAB5166	U/mL	< 20	NA	≥ 20
Anti-β2-Glycoprotein I Antibodies (IgG, IgM)	LAB5167	U/mL	< 20	NA	≥ 20
Tissue Transglutaminase Antibody, IgA	LAB6912	U/mL	< 15	NA	≥ 15
Tissue Transglutaminase Antibody, IgG	LAB6163	U/mL	< 15	NA	≥ 15
Gliadin (Deamidated) Antibody, IgA	LAB5758	U/mL	< 15	NA	≥ 15
Gliadin (Deamidated) Antibody, IgG	LAB5759	U/mL	< 15	NA	≥ 15
Cyclic Citrullinated Peptide (CCP) Antibody	LAB5754	U/mL	< 3.0	NA	≥ 3.0
Measles (Rubeola) IgG	LAB6898	AI	≤ 0.8	0.9-1.0	≥ 1.1
Mumps IgG	LAB6897	AI	≤ 0.8	0.9-1.0	≥ 1.1
Rubella IgG	LAB6895	AI	≤ 0.7	0.8-0.9	≥ 1.0
Varicella-Zoster Virus IgG	LAB6899	AI	≤ 0.8	0.9-1.0	≥ 1.1
Cytomegalovirus IgG	LAB6893	AI	≤ 0.8	0.9-1.0	≥ 1.1
Cytomegalovirus IgM	LAB6894	AI	≤ 0.8	0.9-1.0	≥ 1.1
Toxoplasma IgG	LAB6891	IU/mL	≤ 9	10-11	≥ 12
Toxoplasma IgM	LAB6892	AI	≤ 0.8	0.9-1.0	≥ 1.1
HSV-1 and HSV-2 IgG	LAB5837	AI	≤ 0.8	0.9-1.0	≥ 1.1
Lyme IgG/IgM	LAB6896	AI	≤ 0.8	0.9-1.0	≥ 1.1

Abbreviation: AI = Antibody Index

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Additional Updates:

- Histone IgG orders will be sent to ARUP Laboratories for testing (LAB5761).
- Anti-Cardiolipin (ACL) IgA will no longer be included in the Cardiolipin antibody panel. The value of ACL IgA testing has questionable value in the workup of antiphospholipid syndrome.

For additional information, access the Laboratory Test Directory at:

<http://beaumontlaboratory.com/test-lab-directory>

Date submitted: January 24, 2024

Submitted By: Gabriel Maine, PhD
Caitlin Schein, MD
Qian (Katie) Sun, PhD
Pathology & Laboratory Medicine, CHE