

Epstein Barr Virus Antibody Testing

Commencing April 2, 2024, the Chemistry section of the clinical laboratory at William Beaumont University Hospital will perform Epstein Barr Virus (EBV) antibody testing on the fully automated Bio-Rad BioPlex platform. The BioPlex instrument uses a multiplex bead array methodology for testing. Information about each test is provided below.

- Specimen collection requirements will not change. EBV antibody testing requires the collection of a gold-top Serum Separator Tube (SST).

Test Name	Test Code
EBV Antibody Panel	LAB5829
EBV Viral Capsid Antigen (VCA) IgG	LAB5830
EBV Viral Capsid Antigen (VCA) IgM	LAB5831
EBV Early Antigen (EA) IgG	LAB5832
EBV Nuclear Antigen (EBNA) IgG	LAB5833

- Updates to test reference intervals/cutoff values:
Units: AI (Antibody Index)
Negative: ≤ 0.8
Equivocal: 0.9-1.0
Positive: ≥ 1.1

- EBV Antibody Panel Test Result Interpretation:

EBV VCA IgG	EBV VCA IgM	EA IgG	EBNA IgG	Interpretation
Negative	Negative	Negative	Negative	No previous infection
Positive	Positive	Positive/Negative	Negative	Acute/primary infection
Positive	Positive/Negative	Positive/Negative	Positive/Negative	Recent infection
Positive	Negative	Negative	Positive	Past infection
Positive	Positive/Negative	Positive	Positive	Viral reactivation**

**Antibody against early antigen in the presence of a positive EBNA antibody test does not necessarily indicate viral reactivation. Some healthy individuals have antibodies against early antigen that persist indefinitely after initial EBV infection.

For additional information, access the Laboratory Test Directory at:

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

Date submitted: March 13, 2024

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