

TEST CHANGE

Borrelia burgdorferi VlsE1/pepC10 Antibodies, CSF, Total by ELISA With Reflex to IgM and IgG by Immunoblot (Standard Two-Tier Testing, CSF)

3016760, LYME STTTC

Specimen Requirements:

Patient Preparation:

Collect: CSF. New York State Clients: CSF and serum separator tube (SST) or plain red. Serum specimen should be drawn within 24 hours of CSF collection.
~~CSF.~~

Specimen Preparation: Transfer 6 mL CSF to an ARUP standard transport tube. (Min: 2.5 mL) New York State Clients: Transfer 2 mL CSF (Min: 1 mL) to an ARUP standard transport tube AND transfer 2 mL serum to an ARUP standard transport tube.

Transport Temperature: Refrigerated.

Unacceptable Conditions: Bacterially contaminated, heat-inactivated, hemolyzed, or xanthochromic specimens.

Remarks:

Stability: Ambient: 8 hours; Refrigerated: 2 weeks; Frozen: 1 month (avoid repeated freeze/thaw cycles)

Methodology: Semi-Quantitative Enzyme-Linked Immunosorbent Assay (ELISA)/Qualitative Immunoblot

Performed: Sun-Sat

Reported: 1-4 days

Note: If VlsE1/pepC10 antibodies by ELISA is 0.91 IV or greater, then B. burgdorferi IgG antibody by immunoblot and IgM antibody by immunoblot will be added. Additional charges apply.

CPT Codes: 86618; if reflexed, add 86617 x2

New York DOH Approval Status: Specimens from New York clients will be sent out to a New York DOH approved laboratory, if possible.

Interpretive Data:

The detection of antibodies to *Borrelia burgdorferi* in cerebrospinal fluid may indicate central nervous system infection. However, consideration must be given to possible contamination by blood or transfer of serum antibodies across the blood-brain barrier. Lyme disease diagnosis in serum is recommended prior to any CSF studies.

Component	Interpretation
B. burgdorferi VlsE1/pepC10 Abs, ELISA	0.90 IV or less: Negative; VlsE1 and pepC10 antibodies to B. burgdorferi not detected. 0.91-1.09 IV: Equivocal; repeat testing in 10-14 days may be helpful. 1.10 IV or greater: Positive; VlsE1 and pepC10 antibodies to B. burgdorferi detected.

Reference Interval:

Test Number	Components	Reference Interval
	B. burgdorferi VlsE1/pepC10 Abs, CSF	0.90 IV or less