

## **Laboratory Services**

### **Lyme Antibody Capture EIA (Not available for NY drawn specimens)**

This assay is a superior test method for demonstrating *B. burgdorferi* antibody responses. It can be used for the testing of human serum, plasma, CSF and synovial fluid specimens. The specimens are tested quantitatively for IgM, IgG and IgA isotypes and measures the proportion of specific to total antibody for each isotype.

Antibody capture assays are also useful in demonstrating antibody production in CSF. A CSF/serum ratio can easily be attained without adjustment of serum or CSF concentrations due to the increased sensitivity to low levels of antibody such as those found in CSF.

Collect under aseptic conditions. Avoid hemolysis by prompt separation of the serum from the clot. Specimens can be shipped in the red top tube (serum separator tube) after centrifugation.

#### **Specimen Requirements for testing:**

Type of Specimen: Serum, EDTA Plasma, Synovial Fluid, CSF

Volume: 1.0mL

Minimum Volume: 0.5mL

Storage: Refrigerate at 2-8°C

Stability: 7 days at 2-8°C

5 years at -20°C

Shipping: Ambient

Turnaround Time: 24-48 hours from receipt

## **Lyme IgG Line Blot (Not available for NY drawn specimens)**

This assay is intended to be used for the testing of human serum samples which have been found to be positive or equivocal by EIA or IFA assays. A positive result is presumptive evidence of infection with *B. burgdorferi*, the causative agent for Lyme disease.

Collect under aseptic conditions. Avoid hemolysis by prompt separation of the serum from the clot. Specimens can be shipped in the red top tube (serum separator tube) after centrifugation.

### **Specimen Requirements for testing:**

Type of Specimen: Serum

Volume: 0.5mL

Minimum Volume: 0.2mL

Storage: Refrigerate at 2-8°C

Stability: 7 days at 2-8°C  
3-6 months at -20°C

Shipping: Ambient

Turnaround Time: 24-48 hours from receipt

## **Borrelia miyamotoi EIA**

This assay is intended to be used for the testing of human serum or plasma specimens to detect IgM and IgG antibodies to *Borrelia miyamotoi*. The test is intended to be used as an aid in the diagnosis of infection caused by this organism.

Collect under aseptic conditions. Avoid hemolysis by prompt separation of the serum from the clot. Specimens can be shipped in the red top tube (serum separator tube) after centrifugation.

### **Specimen Requirements for testing:**

Type of Specimen: Serum, EDTA Plasma

Volume: 2.0mL

Minimum Volume: 0.5mL

Storage: Refrigerate at 2-8°C or Frozen at -20°C

Stability: 14 days at 2-8°C

5 years at -20°C

Shipping: Ambient

Turnaround Time: 24-48 hours from receipt

### **Babesia microti IFA (Not available for NY drawn specimens)**

This assay is intended to be used for the testing of human serum or plasma specimens to detect IgG antibodies to *Babesia microti*. The test is intended to be used as an aid in the diagnosis of infection caused by this organism.

Collect under aseptic conditions. Avoid hemolysis by prompt separation of the serum from the clot. Specimens can be shipped in the red top tube (serum separator tube) after centrifugation.

#### **Specimen Requirements for testing:**

Type of Specimen: Serum, EDTA Plasma

Volume: 2.0mL

Minimum Volume: 0.5mL

Storage: Refrigerate at 2-8°C or Frozen at -20°C

Stability: 14 days at 2-8°C

5 years at -20°C

Shipping: Ambient

Turnaround Time: 24-48 hours from receipt

## **Bartonella IFA (Not available for NY drawn specimens)**

This assay is intended to be used for the testing of human serum or plasma specimens to detect IgM and IgG antibodies to *Bartonella henselae* and *Bartonella quintana*. The test is intended to be used as an aid in the diagnosis of infection caused by this organism.

Collect under aseptic conditions. Avoid hemolysis by prompt separation of the serum from the clot. Specimens can be shipped in the red top tube (serum separator tube) after centrifugation.

### **Specimen Requirements for testing:**

Type of Specimen: Serum, EDTA Plasma

Volume: 2.0mL

Minimum Volume: 0.5mL

Storage: Refrigerate at 2-8°C or Frozen at -20°C

Stability: 14 days at 2-8°C

5 years at -20°C

Shipping: Ambient

Turnaround Time: 24-48 hours from receipt

**Borrelia miyamotoi DNA Detection (Not available for NY drawn specimens)**

The *B. miyamotoi* PCR assay is a method used to determine the presence of *Borrelia miyamotoi* DNA in human whole blood. The test is intended for use as an aid in the diagnosis of the infection and disease caused by this organism. Results should be used in conjunction with other medical and clinical findings.

Collect under aseptic conditions.

**Specimen Requirements for testing:**

Type of Specimen: EDTA whole blood

Volume: 5.0 mL

Minimum Volume: 2.0 mL

Storage: Refrigerate at 2-8°C (do not freeze)

Stability: 5 days at 2-8°C

Shipping: Ambient

Turnaround Time: 24-48 hours from receipt

**Borrelia lonestari DNA Detection (Not available for NY drawn specimens)**

The *B. lonestari* PCR assay is a method used to determine the presence of *Borrelia lonestari* DNA in human whole blood. The test is intended for use as an aid in the diagnosis of the infection and disease caused by this organism. Results should be used in conjunction with other medical and clinical findings.

Collect under aseptic conditions.

**Specimen Requirements for testing:**

Type of Specimen: EDTA whole blood

Volume: 5.0 mL

Minimum Volume: 2.0 mL

Storage: Refrigerate at 2-8°C (do not freeze)

Stability: 5 days at 2-8°C

Shipping: Ambient

Turnaround Time: 24-48 hours from receipt

## **TICK TESTING SERVICES**

*B. burgdorferi* (Lyme disease)

*B. miyamotoi*

*B. microti* (Babesia parasite)

*B. duncani*

Anaplasma (HGA)

*Ehrlichia chaffeensis* (HME)

*Ehrlichia ewingii*

*Ehrlichia muris*

Powassan/Deer Tick Virus (POWV/DTV)

*Rickettsia* species

*Francisella tularensis*

*Borrelia* species

Bourbon Virus

Heartland Virus

*Borrelia lonestari*

**DNA and RNA detection by Polymerase Chain Reaction (PCR) in ticks**

### **Specimen Requirements for testing:**

Type of Specimen: Tick (dead or alive)

Storage: Ambient

Turnaround Time: 24-48 hours from receipt