



NOW OFFERING LYME BORRELIOSIS SEROLOGY

Borrelia burgdorferi ELISA (IgM, IgG)

Borrelia burgdorferi Western Blot (IgM, IgG)

Our ELISA and Western Blot tests detect two subclasses of antibodies (IgM and IgG) produced by the immune system in response to *Borrelia burgdorferi*. IgM antibodies are the first set of antibodies produced by the body approximately 2-4 weeks after *B. burgdorferi* infection. After approximately 30 days, IgG antibodies are the dominant subclass produced by the body in response to *B. burgdorferi* infection.

A blood test for antibodies against *B. burgdorferi* is the recommended test for the diagnosis of Lyme borreliosis (Lyme Disease). However, if a person has central nervous system symptoms, such as meningitis, then IgM, IgG, and western blot testing may sometimes be performed on cerebrospinal fluid.

All lab tests have limitations. Lyme Borreliosis serology is famously limited for a number reasons, related to host response factors and the way the pathogen behaves in the human body. We offer these CDC-recommended two-tier test options because two-tier testing is the current “standard of diagnostic care” for confirmation of Lyme Disease and therefore important reference assays for both clinical use and well-designed research studies.

Clinically, the symptoms and risks factors for Lyme borreliosis are very similar to other tick-borne infection, most notably bartonellosis and babesiosis. Furthermore, these vector-borne diseases can mimic a number of immune mediated disorders, leading to potential misdiagnosis. Given clinical concerns about misdiagnosis and potential cross-reactivity of antibodies for bartonellosis and other infections, we are expanding our menu to better allow clinicians to test for evidence of potential co-infections in patient specimens.

Why order from Galaxy Diagnostics?

“The kindest form of therapy is a more accurate diagnosis.” ~ Dr. Edward Breitschwerdt

Our mission at Galaxy is to offer the best possible test options for diagnosis of vector-borne disease and to build awareness in the medical community and general public about the medical importance of vector-borne diseases in human and animal health.

- Reliable scientific and clinical expertise
- Proprietary Bartonella ePCR™ and IFA serology
- Insurance Claim Filings
- Clinician Consults

From our roots in emerging infectious disease and comparative medical research at North Carolina State University, Galaxy is a One Health company, dedicated to improvements in research and clinical understandings about the medical importance of vector-borne diseases for animals and the people who care for them.

Contact us today for more information!

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