This test utilizes the polymerase chain reaction (PCR) technology to detect the presence of targeted microbial DNA for the causative agent of Lyme disease and common tick-transmitted co-infections. Sensitivity of the test is 1 to 10 microbes with a specificity exceeding $5 \times 10^{18}$.

The highlighted microbes were detected in the submitted sample:

- Borrelia burgdorferi F7
- B. burgdorferi Osp A
- B. burgdorferi Osp B
- B. burgdorferi Osp C
- Babesia microti
- Babesia divergens
- Babesia duncani
- Bartonella bacilliformis
- Bartonella henselae
- Bartonella quintana
- Borrelia miyamotoi
- Borrelia recurrentis
- Ehrlichia chaffeensis
- Anaplasma phagocytophilum

NSA: Species specific target microbial DNA was detected but amplification product was not of expected size. More commonly detected in individuals with long-term infections. Product size differential possibly due to: degraded DNA, mutation of species, unspecified subspecies, other.

Interpretation of Results Disclaimer: DNA Connexions is not a clinical diagnostic laboratory and cannot provide a diagnosis for disease and/or subsequent treatment. These results are from DNA PCR testing, and indicate the presence of disease-causing agents known to be transferred by ticks. A positive result indicates the presence of DNA from B. burgdorferi and/or other tick-transmitted organisms. A negative result only indicates the absence of detectable targeted organismal DNA in the submitted specimen. The information is supplied as a courtesy to health care providers to aide in an overall assessment. This information alone should not be used to diagnose and/or treat a health problem or disease. All reported results are intended for research purposes only and consultation with a qualified health care provider is required.

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