

Lyme disease



Early diagnostics for a successful therapy!



Your fluorescence-based molecular genetic test system for the sensitive detection of borreliae directly from patient specimens.

Your benefits of using FluoroType[®] Borrelia

- **High sensitivity and specificity:** The detection of highly conserved DNA sequences allows for the sensitive identification of pathogens belonging to the *B. burgdorferi* sensu lato complex within only three hours.
- **User-friendly procedure:** The ready-to-use amplification mix already contains the Taq polymerase. From amplification to result, all steps run fully automated in the **FluoroCycler[®]**. The subsequent test-specific interpretation of the results is performed by the intuitive **Fluoro-Software[®]**.
- **Reliable results:** An Internal Control documents the correct extraction of DNA as well as the successful amplification, thus guaranteeing a valid test performance.
- **Flexible application:** Single samples as well as big batches can be analysed efficiently with **FluoroType[®] Borrelia**.
- **CE-IVD certified:** No need for elaborate validation studies.

Facts

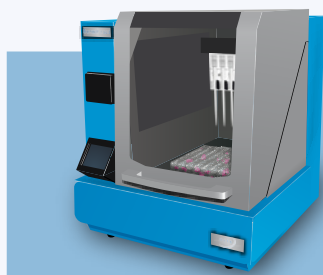
Lyme disease is the most common illness transmitted by ticks in the northern hemisphere. It is caused by different species of the so-called *Borrelia burgdorferi* sensu lato complex. Up to 35% of all ticks in Europe are infected with borreliae.

As Lyme disease is a multisystemic infection, not only skin but also the nervous system, joints and the heart can be affected. Erythema migrans is the most frequent early manifestation. Nevertheless, within several days or weeks bacteria can disseminate into the nervous system (neuroborreliosis), myocard or the joints. Lyme arthritis and acrodermatitis chronica atrophicans can occur as late manifestations years after the tick bite.

Laboratory diagnostics – Easy and reliable

Antibiotic therapy proved to be very effective especially during the early phase of the disease. However, results obtained with serological methods are often false negative at that moment. A reliable alternative is the molecular biological test **FluoroType® Borrelia**. The PCR-based test system allows for the detection of *Borrelia* spp. directly from synovial biopsies, blood and cerebrospinal fluid. **FluoroType® Borrelia** combines high sensitivity with an easy and user-friendly procedure. The Internal Control ensures an accurate performance.

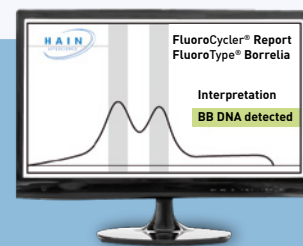
Test principle of FluoroType® Borrelia



DNA extraction with **GenoXtract®**



Amplification and detection



Result in approx. 3 hours

Innovative Technology

Isolation of bacterial DNA is performed automated with **GenoXtract®**. The subsequent amplification and detection with the use of specific fluorescence-labelled probes takes place in the closed system of the **FluoroCycler®**. An Internal Control is included to ensure a successful sample extraction and valid test performance. Results are obtained after only three hours and are interpreted by the user-friendly **Fluoro-Software®**.

For further information please contact **Hain Lifescience** or your local distributor.

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