

# Borrelia Detection Kit

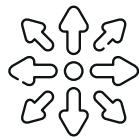
- Superior analytical sensitivity and specificity
- Fast and easy to use Multiplex real-time PCR technology
- Contamination preventing system(UDG)
- Compatible with FAM,VIC/HEX two colour real-time PCR instruments

CE-IVD

Real-time PCR



UDG SYSTEM



MULTIPLEX



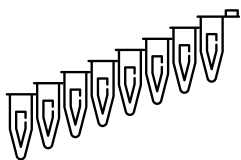
FAST



SENSITIVE

Lyme borreliosis is a systemic disease caused by infection with the spirochete *Borrelia burgdorferi*. It is currently the most common arthropod-borne disease in the United States, and thousands of cases are reported to the Centers for Disease Control and Prevention every year. At least three genospecific pathogens have been characterized in humans: *B. burgdorferi sensu stricto*, *B. afzelii* and *B. garinii*. In North America, only *B. burgdorferi sensu stricto* is endemic, while three genospecies are endemic in Europe. The most affected organs are skin, joints, heart and central and peripheral nervous systems. Neurological manifestations of *B. burgdorferi* infection, known as Lyme neuroborreliosis, occur in 5 to 20% of patients in North America. These include aseptic meningitis, facial nerve palsy, radiculitis, peripheral neuropathy, myositis and encephalopathy.

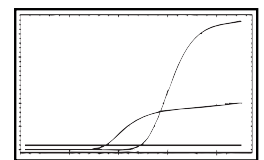
## Simple real time - PCR Workflow



**Sample preparation**  
Add DNA to the reaction mix



**qPCR amplification**  
Multiplex qPCR using primers designed to amplify the DNA sequences specific to each SNP of interest



**Data interpretation**  
SNPs are identified by allele-specific real time PCR.



### Validated PCR Instruments

- Bio-Rad CFX96
- Life Technologies ABI-7500, QuantStudio Series
- Roche, Light Cycler 480 II
- Qiagen Rotor-Gene® 3000 Q5/Q6
- BioMolecular Systems, MicPCR

### Ordering Information

BOR-RT50

geneMAP™ Borrelia

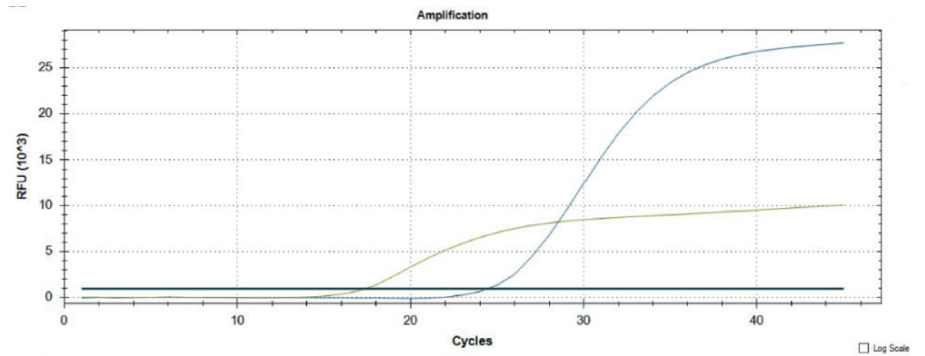
Detection Kit

50 tests **CE-IVD**

CE-IVD is available in the EU and countries outside EU accepting the CE-IVD certification. Available as RUO in all other countries.

### Technical Specifications

For the detection of *Borrelia burgdorferi* sensu lato strains; *B. burgdorferi* sensu stricto, *B. garinii*, *B. afzelii*, *B. andersonii*, *B. bissettii*, *B. valaisiana*, *B. lusitaniae*, *B. japonica*, *B. tanukii*, *B. turdi*, *B. sinica*, *B. miyamotoi*, *B. mayonii*, *B. spielmanii*, *B. bavariensis*, *B. kurtenbachii*.



### CONTENTS

### VOLUME

4x Borrelia Primer Probe Mix

250 µl

2x Master Mix with UDG

500 µl

RNase Free Water

400 µl

Positive Control

50 µl

In GENMARK SAĞLIK URUNLERI, we aim to create the top quality, time and cost efficient, trust-worthy and user-friendly products. We specialize in in-vitro detection kit production and development which is used for the diagnosis and treatment monitoring of many diseases connected to genetics, oncology, microbiology and hematological oncology.