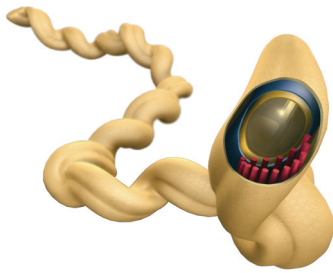


artus[®] Borrelia LC PCR Kit

For detection of Borrelia specific DNA using real-time PCR

The *artus* Borrelia LC PCR Kit is a molecular detection kit based on real-time PCR for rapid and reliable detection as well as quantitation of Borrelia specific DNA isolated from skin biopsies, synovial fluid, CSF, blood, ticks, and culture.



Detection of the Quantitation Standards

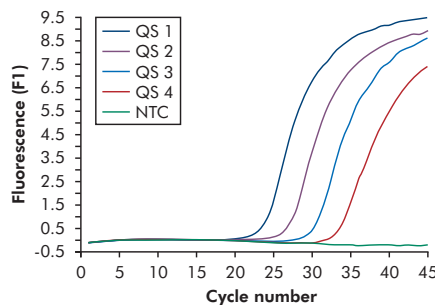


Figure 1 Detection of the Quantitation Standards (Borrelia LC QS 1-4) in fluorimeter channel F1 of the LightCycler 1.1/1.2/1.5. NTC: non-template control (negative control).

Detection of the Internal Control

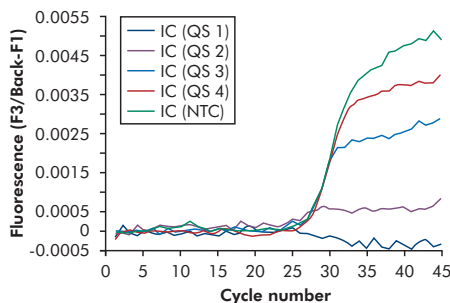


Figure 2 Detection of the Internal Control (IC) in fluorimeter channel F3/Back F1 of the LightCycler 1.1/1.2/1.5 with simultaneous amplification of the Quantitation Standards (Borrelia LC QS 1-4). NTC: non-template control (negative control).

Features of the *artus* Borrelia LC PCR Kits:

- **Fully licensed for PCR** — no additional costs
- **High sensitivity and specificity** — optimized for the sensitive detection of lowest Borrelia DNA concentrations
- **High reliability** — using the Internal Control to verify successful DNA isolation and to exclude false negative results
- **Accurate quantitation of Borrelia DNA** — using the four standards supplied
- **Ready to use** — one reaction mix containing all components for amplification and detection including the polymerase

Detection of Borrelia DNA using real-time PCR

The *artus* Borrelia LC PCR Kit is a ready-to-use system for the detection of Borrelia specific DNA and is specifically designed for use on LightCycler[®] Instruments. Each kit includes a reaction mix containing all reagents and enzymes for specific amplification and detection (Figure 1). In addition, the *artus* Borrelia LC PCR Kit provides an Internal Control, which is a second heterologous amplification system to identify possible PCR inhibition and to monitor nucleic acid purification (Figure 2).

Sensitivity and specificity

To ensure highest sensitivity, the *artus* Borrelia LC PCR Kit has been optimized to detect low numbers of Borrelia DNA (Table 1). To ensure highest specificity, validation of the *artus* Borrelia LC PCR Kit included various Borrelia species and other pathogens.



Table 1. Limit of Detection (p=0.05)

Real-time PCR cycler	Copies/PCR
LightCycler 1.1/1.2/1.5 Instruments	8.5

Table 2. Recommendations

Sample types	DNA purification
Skin biopsies, synovial fluid, CSF, blood, ticks, culture	QIAamp® DNA Mini Kit

Integrated Systems for Borrelia Detection



Ordering Information

Product	Contents	Reactions	Cat. no.
For use on the LightCycler 1.1/1.2/1.5/2.0 Instruments			
<i>artus</i> Borrelia LC PCR Kit*	Master, Mg-Solution, 4 Quantitation Standards, Internal Control, Water (PCR grade)	24	4551003
		96	4551005

* The *artus* Borrelia LC PCR Kit is currently available for research use only.

Contact QIAGEN today to discover more about molecular detection technologies!

Trademarks: QIAGEN®, QIAamp®, *artus*®(QIAGEN Group), LightCycler® (Roche Group).

The *artus* Borrelia LC PCR Kit is for research use only. Not for diagnostic procedures. No claim or representation is intended for their use for a specific clinical use (diagnostic, prognostic, or therapeutic). It is the user's responsibility to validate the performance of the *artus* Borrelia LC PCR Kit for any particular use. Not available in the USA. The QIAamp DNA Mini Kit is intended for general laboratory use. No claim or representation is intended to provide information for the diagnosis, prevention, or treatment of a disease.

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