

artus[®] HBV QS-RGQ Kit

For quantitative detection of hepatitis B virus DNA using real-time PCR

The *artus* HBV QS-RGQ Kit is a ready-to-use molecular detection kit for real-time PCR on Rotor-Gene[®] Q instruments. The kit provides all necessary reagents optimized for reliable HBV DNA detection and quantitation including genotypes A–H. The kit is part of the QIAasymphony[®] RGQ, the complete automated system from sample to pathogen detection.

The *artus* HBV QS-RGQ Kit provides:

- Complete CE-IVD-compliant workflow from sample to detection
- High reliability using the internal control
- Highly sensitive detection of as few as 10.22 IU/ml
- Broad linear range from 31.6 IU/ml to $>2 \times 10^7$ IU/ml
- Accurate quantitation using the 5 standards supplied

Reliable HBV diagnostics using real-time PCR

The *artus* HBV QS-RGQ Kit is based on the amplification and simultaneous detection of a specific region of the HBV genome using real-time PCR. The kit provides high levels of specificity, sensitivity, and reproducibility as part of the complete QIAasymphony RGQ workflow.

The *artus* HBV QS-RGQ Kit provides 5 HBV quantitation standards (Figure 1). Use of the standards enables accurate quantitation of viral load. In addition, the *artus* HBV QS-RGQ Kit contains a second heterologous amplification system to identify possible PCR inhibition. This is detected as an internal control (IC) in a different fluorescence channel from the analytical PCR. The detection limit of the analytical HBV PCR is not reduced.

Table 1. Specifications of the *artus* HBV QS-RGQ Kit

Sample type	EDTA plasma
Analytical sensitivity	10.22 IU/ml
Amplicon	134 bp region of the HBV genome

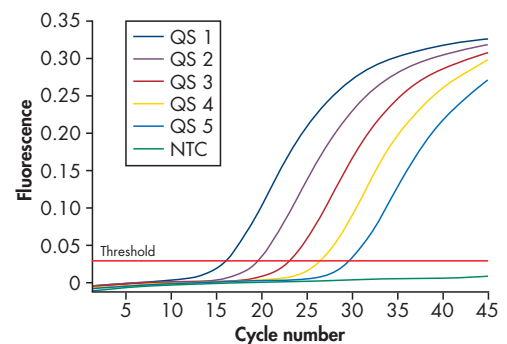
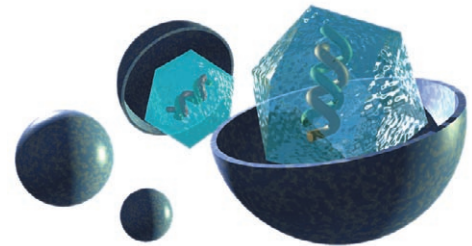


Figure 1. Detection of the quantitation standards (HBV RG/TM QS 1–5) in fluorescence channel Cycling Green. NTC: No template control (negative control).



Complete automated system from sample to HBV detection

The QIASymphony RGQ workflow solution for HBV detection comprises the QIASymphony SP for sample preparation, the QIASymphony AS for assay setup, and the *artus* HBV QS-RGQ Kit on the Rotor-Gene Q. The system enables reliable pathogen detection with a complete CE-IVD-compliant workflow.

Highly sensitive and specific detection of HBV DNA

To ensure highest sensitivity, the *artus* HBV QS-RGQ Kit has been optimized to detect low numbers of HBV DNA. The analytical sensitivity of the kit is 10.22 IU/ml in consideration of the purification and assay setup using the QIASymphony RGQ system (Figure 2).

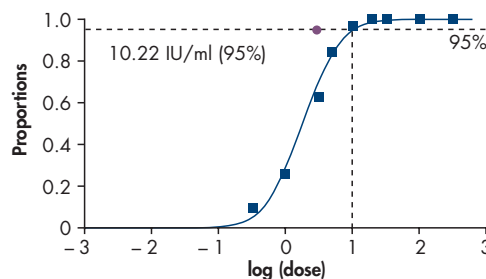
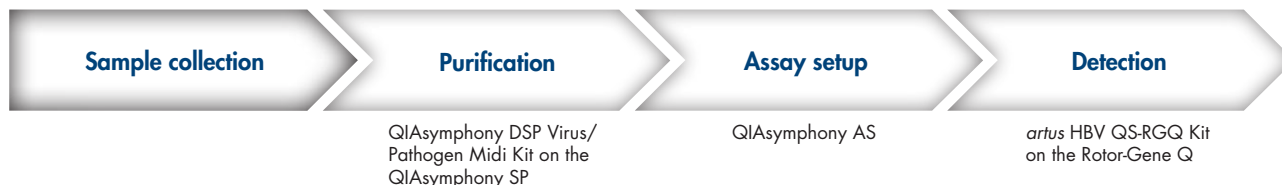


Figure 2. Highly sensitive detection of HBV DNA. Probit analysis: HBV (QIASymphony RGQ system). Analytical sensitivity of the *artus* HBV QS-RGQ Kit with the QIASymphony RGQ system.

Integrated QIASymphony RGQ system for HBV detection



Ordering Information

Product	Contents	Cat. no.
<i>artus</i> HBV QS-RGQ Kit (24)	For 24 reactions: Master, 5 Quantitation Standards, Internal Control, Water (PCR grade)	4506363
<i>artus</i> HBV QS-RGQ Kit (72)	For 72 reactions: Master, 5 Quantitation Standards, Internal Control, Water (PCR grade)	4506366
QIASymphony DSP Virus/Pathogen Midi Kit (96)	For up to 96 preps of 1000 µl each: Includes 2 reagent cartridges and enzyme racks and accessories	937055
QIASymphony RGQ, System	QIASymphony SP, QIASymphony AS, Rotor-Gene Q 5plex HRM, required accessories and consumables, installation and training	9001850

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit handbook or user manual. QIAGEN kit handbooks and user manuals are available at www.qiagen.com or can be requested from QIAGEN Technical Services or your local distributor.

Contact QIAGEN today to discover more about molecular detection technologies!

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