

artus[®] HI Virus-1 QS-RGQ Kit

For quantitative detection of HIV-1 specific RNA using real-time RT-PCR

The artus HI Virus-1 QS-RGQ Kit is a ready-to-use molecular detection kit for real-time RT-PCR on Rotor-Gene[®] Q instruments. The kit provides all necessary reagents optimized for reliable HIV-1 RNA detection and quantitation. The kit is part of the QIASymphony[®] RGQ, the complete automated system from sample to pathogen detection.

The artus HI Virus-1 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 76.4 IU/ml
- Broad linear range from 250 IU/ml to 1.00 x 10⁸ IU/ml
- Accurate quantitation using the 4 standards supplied

Reliable HIV-1 diagnostics using real-time RT-PCR

The artus HI Virus-1 QS-RGQ Kit is based on the amplification and simultaneous detection of a specific region of the HIV-1 genome using real-time PCR. The kit provides high levels of specificity, sensitivity, and reproducibility as part of the complete QIASymphony RGQ workflow.

The artus HI Virus-1 QS-RGQ Kit provides 4 HIV-1 quantitation standards (Figure 1). Use of the standards enables accurate quantitation of viral load. In addition, the artus HI Virus-1 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 HIV-1 PCR is not reduced.

Complete automated system from sample to HIV-1 detection

The QIASymphony RGQ workflow solution for HIV-1 detection comprises the QIASymphony SP for sample preparation, the QIASymphony AS for assay setup, and the artus HI Virus-1 QS-RGQ Kit on the Rotor-Gene Q. The system enables reliable pathogen detection with a complete CE-IVD-compliant workflow.

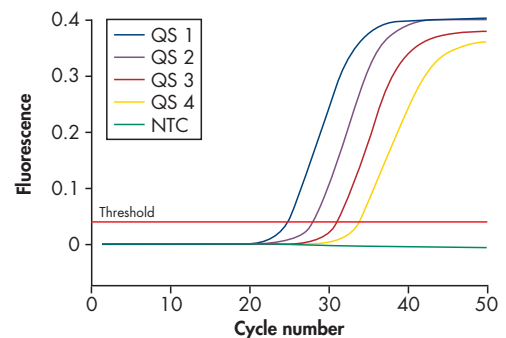
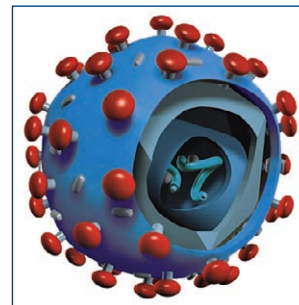


Figure 1. Detection of the quantitation standards (HI Virus-1 RG QS 1–4) in fluorescence channel Cycling Green. NTC: No template control (negative control).



Highly sensitive and specific detection of HIV-1 RNA

To ensure highest sensitivity, the *artus* HI Virus-1 QS-RGQ Kit has been optimized to detect low numbers of HIV-1 RNA. The analytical sensitivity of the kit is 76.4 IU/ml in consideration of the purification and assay setup using the QIAAsymphony RGQ system (Figure 2).

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

Validated sample type	EDTA plasma
Analytical sensitivity	76.4 IU/ml
Amplicon	93 nt region of the 5' LTR

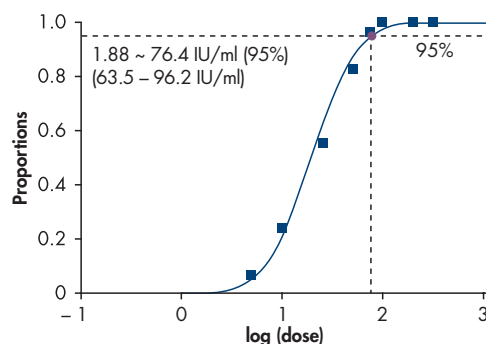
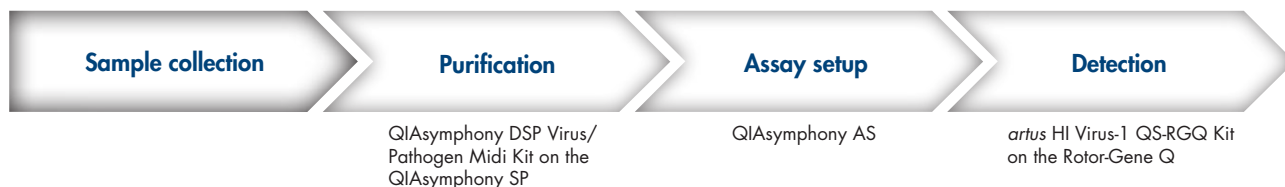


Figure 2. Highly sensitive detection of HIV-1 RNA. Probit analysis: HI Virus-1 (QIAAsymphony RGQ system). Analytical sensitivity of the *artus* HI Virus-1 QS-RGQ Kit with the QIAAsymphony RGQ system.

Integrated QIAAsymphony RGQ system for HIV-1 detection



Ordering Information

Product	Contents	Cat. no.
<i>artus</i> HI Virus-1 QS-RGQ Kit (24)	For 24 reactions: 2 Masters, 4 Quantitation Standards, Internal Control, Water (PCR grade)	4513363
<i>artus</i> HI Virus-1 QS-RGQ Kit (72)	For 72 reactions: 2 Masters, 4 Quantitation Standards, Internal Control, Water (PCR grade)	4513366
QIAAsymphony 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
QIAAsymphony RGQ, System	QIAAsymphony SP, QIAAsymphony 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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