

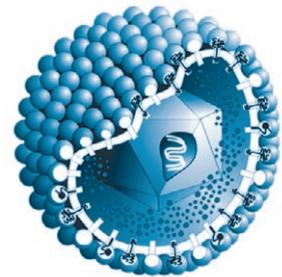
## artus<sup>®</sup> CMV QS-RGQ Kit

### For quantitative detection of cytomegalovirus DNA using real-time PCR

The *artus* CMV QS-RGQ Kit is a ready-to-use molecular detection kit for real-time PCR on Rotor-Gene<sup>®</sup> Q instruments. The kit provides all necessary reagents optimized for reliable CMV DNA detection and quantitation. The kit is part of the QIAasymphony<sup>®</sup> RGQ, the complete automated system from sample to pathogen detection.

#### The *artus* CMV 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 42.5 copies/ml
- Broad linear range from 79.4 copies/ml to  $1.00 \times 10^8$  copies/ml
- Accurate quantitation using the 4 standards supplied



#### Reliable CMV diagnostics using real-time PCR

The *artus* CMV QS-RGQ Kit is based on the amplification and simultaneous detection of a specific region of the CMV 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* CMV QS-RGQ Kit provides 4 CMV quantitation standards (Figure 1). Use of the standards enables accurate quantitation of viral load. In addition, the *artus* CMV 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 CMV PCR is not reduced.

#### Complete automated system from sample to CMV detection

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

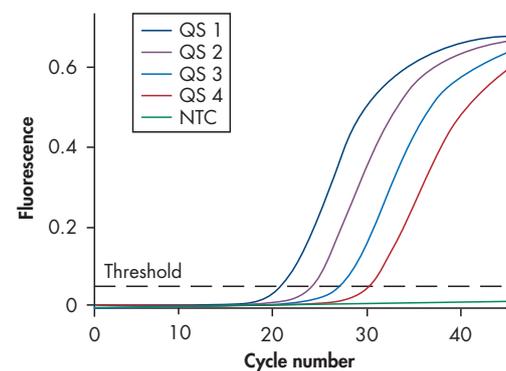


Figure 1. Detection of the quantitation standards (CMV QS 1–4) in fluorescence channel Cycling Green. NTC: No template control (negative control).

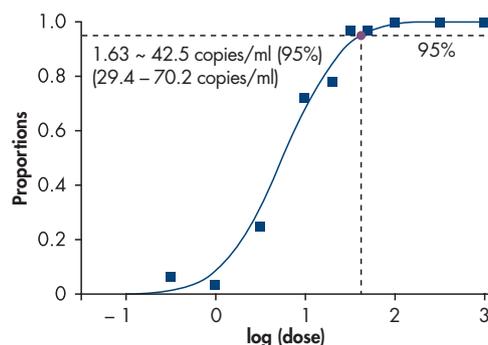


## Highly sensitive and specific detection of CMV DNA

To ensure highest sensitivity, the *artus* CMV QS-RGQ Kit has been optimized to detect low numbers of CMV DNA. The analytical sensitivity of the kit is 42.5 copies/ml in consideration of the purification and assay setup using the QIAAsymphony RGQ system (Figure 2).

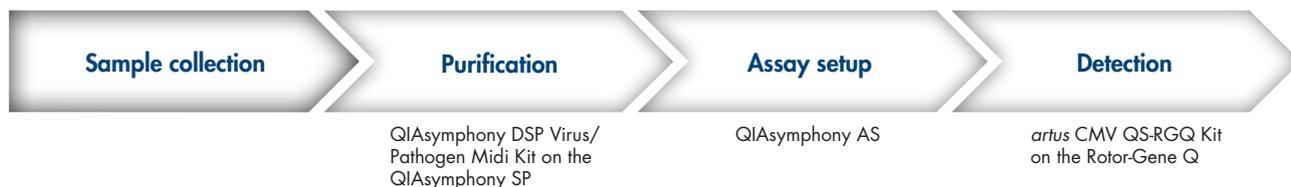
**Table 1. Specifications of the *artus* CMV QS-RGQ Kit**

Validated sample type	EDTA plasma
Analytical sensitivity	42.5 copies/ml
Amplicon	105 bp region of the major immediate early (MIE) gene



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

### Integrated QIAAsymphony RGQ system for CMV detection



## Ordering Information

Product	Contents	Cat. no.
<i>artus</i> CMV QS-RGQ Kit (24)	For 24 reactions: Master, Magnesium Solution, 4 Quantitation Standards, Internal Control, Water (PCR grade)	4503363
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](http://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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