CMV PCR Kit Description

The CMV PCR Kit constitutes a ready-to-use system for the detection of CMV DNA using polymerase chain reaction (PCR). The kit contains reagents and enzymes for the specific amplification of a 105 bp region of the CMV genome, and a second heterologous Internal Control (IC) amplification system to identify possible PCR inhibition. External positive controls are supplied which allow the determination of the pathogen load.

Abbott CMV PCR Kit Performance Data

<table>
<thead>
<tr>
<th>Sample Types</th>
<th>EDTA or citrate plasma\textsuperscript{1,4}; whole blood\textsuperscript{2}</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensitivity</td>
<td>30 – 64 copies/ml\textsuperscript{1–4}</td>
</tr>
<tr>
<td>Precision</td>
<td>&lt; 12% CV\textsuperscript{1}</td>
</tr>
<tr>
<td>Linear Range</td>
<td>&gt; 5 log copies/ml\textsuperscript{1}</td>
</tr>
<tr>
<td>Internal Control</td>
<td>Allows to control samples extraction and PCR efficiency</td>
</tr>
</tbody>
</table>

Excellent sensitivity

CMV PCR Kit has been optimized to detect very low viral load down to 30 copies/ml.

Specificity

The specificity of the CMV PCR Kit is first and foremost ensured by the selection of the primers and probes, as well as the selection of stringent reaction conditions. The detectability of all relevant strains has thus been ensured, as well as the exclusion of cross-reactivity with other species.
Internal Control
The Internal Control allows the user both to control the nucleic acid isolation efficiency and to check for possible PCR inhibition.

Quantitative Results
External Quantitation Standards of different concentrations (QS 1–4) are supplied for precise quantitation of the pathogen load.

Flexible Throughput
Allows to handle of one sample up to 96 samples in one single run.

Easy-to-use Real-Time PCR Kit

Sample Preparation/
DNA Extraction

Preparation of
PCR Reaction

Amplification,
Detection and Results

Detection of the Quantitation Standards (CMV QS 1–4) by measurement of the FAM fluorescence signal (ABI PRISM® 7000 SDS). NTC: non-template control (negative control).

Ordering Information

<table>
<thead>
<tr>
<th>Product</th>
<th>List Number</th>
<th>Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abbott CMV PCR Kit</td>
<td>LN 8K56-01</td>
<td>24 reactions</td>
</tr>
<tr>
<td>Abbott CMV PCR Kit</td>
<td>LN 8K56-03</td>
<td>96 reactions</td>
</tr>
</tbody>
</table>

References
1. Handbook CMV PCR Kit (Instructions for Use)
2. Claire Deback et al. 2006; 9th Annual ESCV Conference, Birmingham (UK); Evaluation of an automated and highly sensitive real-time PCR assay for CMV DNA in whole blood samples
3. Sabine Yerli et al. 2007; J Clin Virol, in press; Cytomegalovirus quantification in plasma by an automated real-time PCR assay
4. Carolyn Mullen et al. 2007; 23rd Annual Clinical Virology Symposium, Clearwater (USA); Quantitative detection of CMV viral DNA on the Abbott Molecular m2000 system

For Information Only. For performance Claims of the CMV PCR Kit refer to the current Instructions for Use.