

CE-IVD

# TaqPath Menu GeneProof Cytomegalovirus (CMV) PCR Kit

## Molecular diagnostic for immunocompromised and transplanted people

### Broad range of reliable and simple PCR-based testing to help diagnosis

Immunosuppressed and immunocompromised people, including solid organ and hematopoietic stem cell and tissue transplant recipients, are at elevated risk of complications from infectious diseases. Such people require prompt diagnosis and frequent viral load monitoring to guide prophylaxis treatment and care. Clinical testing laboratories require a comprehensive testing menu that delivers accurate and timely results for pathogens

commonly associated with these patients. The Applied Biosystems™ TaqPath™ Menu | GeneProof™ transplant portfolio supports the testing needs of transplant centers with CE-marked, reliable assays to detect infectious diseases and which are specifically designed to address the common pathogens that put immunocompromised and transplanted patient groups at risk.

### Applied Biosystems™ TaqPath™ Menu | GeneProof™ Cytomegalovirus (CMV) PCR Kit features:



#### WHO standard-based quantification

- Precise and fully traceable quantification according to 1st World Health Organization (WHO) International Standard NIBSC 09/162



#### Easy-to-use concept

- Single tube ready-to-use Master Mix contains all components for PCR amplification
- No additional pipetting of PCR reagents is necessary



#### Contamination reduction

- Master Mix contains uracil-DNA glycosylase (UNG) and dUTPs reducing carryover contamination



#### Simple laboratory workflow

- Easily combinable with other PCR kits from the TaqPath Menu | GeneProof transplant portfolio in one workflow



#### Compatible with a wide range of qPCR devices

## Product details for the TaqPath Menu | GeneProof CMV PCR Kit

<b>Technology</b>	Qualitative and quantitative qPCR						
<b>Target sequence</b>	Gene encoding the IE1 protein						
<b>Sample type</b>	DNA extracted from CSF, plasma, serum, urine, whole blood (EDTA)						
<b>Analytical specificity</b>	Human CMV, 100%						
<b>Analytical sensitivity (LoD with the probability of 95%)</b>	<b>Sample processing</b>	<b>CSF</b>	<b>Plasma</b>	<b>Serum</b>	<b>Urine</b>	<b>Whole blood</b>	
	GeneProof PathogenFree DNA Isolation Kit	134.28 IU/mL	122.59 IU/mL	87.52 IU/mL	255.48 IU/mL	172.44 IU/mL	
	croBEE 201A Nucleic Acid Extraction Kit	411.43 IU/mL	165.24 IU/mL	228.15 IU/mL	745.68 IU/mL	117.70 IU/mL	
	myCROBE/croBEE 2.0 Universal Extraction Kit	630.34 IU/mL	281.37 IU/mL	82.49 IU/mL	287.95 IU/mL	431.21 IU/mL	
<b>Diagnostic specificity</b>	94.21% (CI <sub>95%</sub> : 88.01%–97.44%)						
<b>Diagnostic sensitivity</b>	98.32% (CI <sub>95%</sub> : 95.90%–99.38%)						
<b>Extraction/inhibition control</b>	PCR inhibition and DNA extraction efficiency control						
<b>Linear range</b>	<b>Extraction method</b>	<b>Precision</b>	<b>CSF</b>	<b>Plasma</b>	<b>Serum</b>	<b>Urine</b>	<b>Whole blood</b>
	GeneProof PathogenFree DNA Isolation Kit	± 0.5 log	10 <sup>10</sup> –10 <sup>2.5</sup> IU/mL		10 <sup>10</sup> –10 <sup>2</sup> IU/mL	10 <sup>10</sup> –10 <sup>3</sup> IU/mL	10 <sup>10</sup> –10 <sup>2.5</sup> IU/mL
	croBEE 201A Nucleic Acid Extraction Kit		10 <sup>10</sup> –10 <sup>3</sup> IU/mL	10 <sup>10</sup> –10 <sup>2.5</sup> IU/mL	10 <sup>10</sup> –10 <sup>2.5</sup> IU/mL	10 <sup>10</sup> –10 <sup>3</sup> IU/mL	10 <sup>10</sup> –10 <sup>3</sup> IU/mL
	myCROBE/croBEE 2.0 Universal Extraction Kit		10 <sup>10</sup> –10 <sup>3</sup> IU/mL		10 <sup>10</sup> –10 <sup>2.5</sup> IU/mL	10 <sup>10</sup> –10 <sup>2.5</sup> IU/mL	10 <sup>10</sup> –10 <sup>2.5</sup> IU/mL
<b>Instruments</b>	<p>Applied Biosystems™ 7300 and 7500 Real-Time PCR Systems                      Applied Biosystems™ QuantStudio™ 3 and QuantStudio™ 5 Real-Time PCR Systems                      StepOne™/StepOne Plus™ Real-Time PCR System                      croBEE Real-Time PCR System                      AriaMx Real-Time PCR System                      CFX connect/CFX96/Dx Real-Time PCR Detection System                      CFX Opus 96 Real-Time PCR System                      Gentier 96E/96R Real-Time PCR System                      LineGene 9600, 9600 Plus System                      SLAN Real-Time PCR System                      AMPLilab Real-Time PCR System                      BioQuant-96 Real-Time PCR System                      LightCycler 480                      Mic qPCR Cyclers                      Montania 4896 Real-Time PCR thermocycler                      Rotor-Gene 3000/6000/Q</p>						
<b>Validated extraction methods</b>	croBEE 201A Nucleic Acid Extraction Kit myCROBE/croBEE 2.0 Universal Extraction Kit GeneProof PathogenFree DNA Isolation Kit						
<b>Detection channel</b>	FAM (CMV), HEX/JOE/VIC (IC)						
<b>External quality assessment</b>	Regularly tested using QCMD and INSTAND e.V. External Quality Assessment Panel, results at <a href="http://geneproof.com">geneproof.com</a>						

## Ordering information

Description	Quantity	Cat. No.
TaqPath Menu   GeneProof CMV PCR Kit	100 reactions	A58428

## Rely on a comprehensive portfolio of Applied Biosystems™ TaqPath™ Menu | GeneProof™ Kits to help meet your lab's clinical testing needs

- TaqPath Menu | GeneProof Epstein-Barr Virus (EBV) PCR Kit
- TaqPath Menu | GeneProof BK Virus (BKV) PCR Kit
- TaqPath Menu | GeneProof BK/JC Virus (BK/JC) PCR Kit
- TaqPath Menu | GeneProof Varicella-Zoster Virus (VZV) PCR Kit
- TaqPath Menu | GeneProof Human Herpesvirus 6/7 (HHV-6/7) PCR Kit
- TaqPath Menu | GeneProof Human Herpesvirus 8 (HHV-8) PCR Kit
- TaqPath Menu | GeneProof Parvovirus B19 PCR Kit
- TaqPath Menu | GeneProof JC Virus (JCV) PCR Kit
- TaqPath Menu | GeneProof Aspergillus PCR Kit



Learn more at [thermofisher.com/transplant-taqpath-menu](https://thermofisher.com/transplant-taqpath-menu)

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