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# kPCR PLX JC Virus (JCV) DNA Assay

VERSANT kPCR Molecular System

## Assay Description

The kPCR PLX JC Virus (JCV) DNA assay is an in vitro diagnostic test for the detection and quantification of JCV-specific DNA in human EDTA plasma specimens. The assay is based on real-time PCR technology, utilizing polymerase chain reaction (PCR) for the amplification of specific target sequences and target-specific probes for the detection of the amplified DNA. The kPCR PLX family of assays is configured for use with the VERSANT® kPCR Molecular System and the VERSANT Sample Preparation 1.2 Reagents Kit.

## Clinical Background

- JC virus (JCV) establishes ubiquitous infections worldwide.
- Primary infections generally occur in early childhood and are typically subclinical, followed by a lifelong persistence.
- The epithelial cells of the kidneys, lymphocytes, and oligodendrocytes were identified as predominant cell types persistently infected by JCV.
- Polyomavirus infections, such as JCV, remain unapparent in immunocompetent individuals but can reactivate with immunosuppression.
- JCV reactivation in immunosuppressed individuals may result in the development of progressive multifocal leukoencephalopathy (PML), a demyelinating disease of the central nervous system.

## VERSANT kPCR Molecular System with VERSANT MiPLX Software Solution

Advancing flexibility, workflow, customization, and consolidation in the molecular laboratory.

- Comprehensive and flexible solution for molecular diagnostics.
- Consolidation of quality assays for infectious-disease testing on a single, automated platform.
- Multiplexing of up to six assays from one sample in one run.
- Standardized extraction method for isolation of quality nucleic acids from a wide variety of specimen types.
- Flexible open-channel capabilities enables customization of laboratory-developed and third-party assays.
- Efficient workflow with powerful productivity due to ease of use, minimum hands-on time, maximum walkaway time, and fast turnaround time.

## One Solution— More Choice.



# kPCR PLX JC Virus (JCV) DNA Assay

Performance Characteristics	
Description	Value
Limit of detection (LoD)	24 copies/mL
Linear range	1.00 E2 to 1.05 E5 copies/mL
Clinical specificity (negative samples)	≥95%

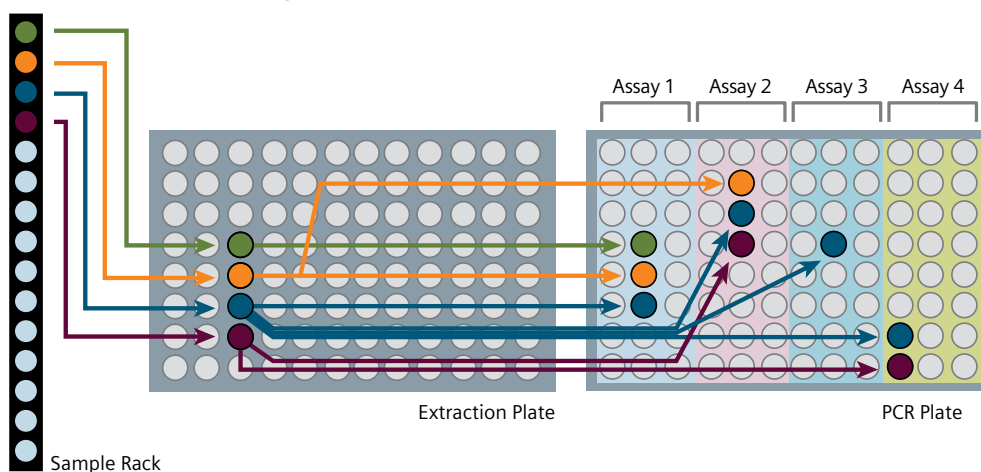
  

Product Specifications	
Description	Value
Reagent storage conditions	-20°C
Specimen volume	700 µL
kPCR PLX Universal Negative Control (UNC)	Full process negative control that is extracted and amplified along with the samples

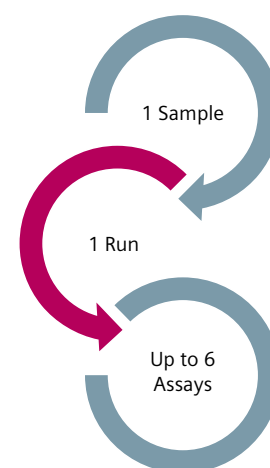
Ordering Information		
Catalog Number	kPCR PLX Assay Menu*	Quantity
10718587	kPCR PLX Adenovirus DNA	72 tests
10718585	kPCR PLX BK Virus (BKV) DNA	72 tests
10718580	kPCR PLX Cytomegalovirus (CMV) DNA	72 tests
10718581	kPCR PLX Epstein-Barr Virus (EBV) DNA	72 tests
10718582	kPCR PLX Herpes Simplex Virus 1 and 2 (HSV) DNA	72 tests
10718584	kPCR PLX Human Herpes Virus 6 (HHV-6) DNA	72 tests
10718586	kPCR PLX JC Virus (JCV) DNA	72 tests
10718598	kPCR PLX Parvovirus B19 DNA	72 tests
10718583	kPCR PLX Varicella-Zoster Virus (VZV) DNA	72 tests
10629800	VERSANT Sample Preparation 1.2 Reagents (Boxes 1 and 2)	96 tests

\*kPCR PLX assays include all controls and calibrators in the same kit. CE marked for IVD use.

VERSANT MiPLX Software with Dynamic Protocols allows you to run 1, 2, 4, or 6 assays from one extracted sample in one run.



VERSANT MiPLX Software Solution



Optimize your laboratory's workflow with the ability to run the kPCR PLX JC Virus (JCV) DNA assay along with other kPCR PLX assays from a single patient specimen.

Please contact your local sales representative to learn more about the full line of our molecular assays for infectious diseases or visit [siemens.com/molecular](http://siemens.com/molecular).

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kPCR PLX assays are manufactured by Altona Diagnostics GmbH and distributed by Siemens Healthcare Diagnostics Inc.

Product availability may vary from country to country and is subject to varying regulatory requirements. Please contact your local representative for availability.

## Local Contact Information

**Siemens Healthcare**  
Molecular Diagnostics  
725 Potter Street  
Berkeley, CA 94710-2722  
USA  
Phone: +1 510-982-4000  
[siemens.com/healthcare](http://siemens.com/healthcare)

## Siemens Healthcare Headquarters

Siemens Healthcare GmbH  
Henkestr. 127  
91052 Erlangen  
Germany  
Phone: +49 9131 84-0  
[siemens.com/healthcare](http://siemens.com/healthcare)