

# qPCR-Based Assay Kits for Pathogen Detection



Cayman is proud to offer quantitative PCR (qPCR) assay kits for the detection of pathogenic bacteria, viruses, fungi, and protozoans through our partnership with PCRassays.com. These rigorously validated multiplex assays from PCRassays.com have been designed using DNA Software, the industry-leading multiplex design software, and are extremely sensitive, with limits of detection below 10-20 molecules. By allowing for simultaneous detection of multiple pathogens, minimal enzyme amounts, and high-throughput analysis, PCRassays.com's qPCR-based infectious disease detection kits are designed to save you time and money.



## Sexually Transmitted Infection (STI) qPCR Assay Kits

Each of these multiplexed qPCR assay kits includes primers and probes for pathogens and human RPP30 DNA control, synthetic positive controls, spike-in RPP30 DNA control, and qPCR enzyme mastermix.



### Four-Color Assay Kits

Pathogen primers and probes included		Item No. 40692	Item No. 40693	Item No. 40694	Item No. 40695	Item No. 40696	Item No. 40697
Bacteria	<i>Chlamydia trachomatis</i>		×				
	<i>Neisseria gonorrhoeae</i>					×	
	<i>Treponema pallidum</i>					×	
	<i>Mycoplasma genitalium</i>		×				
Viruses	HSV-1					×	
	HSV-2		×				
<b>Optimized for instrument(s)</b>		Bio-Rad CFX96 or CFX384	QuantStudio 5, 6, 7, 12K	BMS MIC	Bio-Rad CFX96 or CFX384	QuantStudio 5, 6, 7, 12K	BMS MIC

## Five-Color Assay Kits

The following five-color assay kits are optimized for the Bio-Rad CFX96 or CFX384.

Pathogen primers and probes included		Item No. 40684	Item No. 40685	Item No. 40686	Item No. 40687	Item No. 40688	Item No. 40689	Item No. 40690	Item No. 40691
Bacteria	<i>Chlamydia trachomatis</i>	×		×	×	×		×	×
	<i>Haemophilus ducreyi</i>	×							×
	<i>Neisseria gonorrhoeae</i>		×	×	×	×		×	
	<i>Treponema pallidum</i>		×	×		×	×		×
	<i>Mycoplasma hominis</i>	×							
	<i>Mycoplasma genitalium</i>		×					×	
	<i>Ureaplasma urealyticum</i>		×						
Protozoa	<i>Trichomonas vaginalis</i>	×				×		×	
Viruses	HSV-1			×	×		×		
	HSV-2			×	×		×		×
	Monkeypox virus						×		

## Candida qPCR Assay Kits

### *Candida* genus qPCR Assay

Item No. 40675

Singleplex assay detects 29 species of *Candida*.

Primers and probes included. Mastermix and synthetic controls sold separately.

### *Candida* Multiplex Assay Kits

Each of these multiplexed qPCR assay kits includes primers and probes for pathogens and human RPP30 DNA control, synthetic positive controls, spike-in RPP30 DNA control, and qPCR enzyme mastermix. These kits are optimized for the Bio-Rad CFX96 or CFX384.

	Candida M1 (Bio-Rad) Multiplexed qPCR Assay - Item No. 40676	Candida M2 (Bio-Rad) Multiplexed qPCR Assay - Item No. 40677
Pathogen primers and probes included	<i>C. glabrata</i> <i>C. guilliermondii</i> <i>C. parapsilosis</i> <i>C. tropicalis</i>	<i>C. albicans</i> <i>C. auris</i> <i>C. dubliniensis</i> <i>C. lusitaniae</i>

# Viral Upper Respiratory Infection RT-qPCR Assay Kits

PCRassays.com's reverse transcription qPCR (RT-qPCR) assay kits allow for the detection of RNA viruses such as SARS-CoV-2, influenza, and respiratory syncytial virus (RSV) in samples.

## SARS-CoV-2 RT-qPCR Assay Kits

COVID N1P RT-qPCR Assay Item No. 40678	COVID N1P-N2P RT-qPCR Assay Item No. 40679
<ul style="list-style-type: none"> <li>• Singleplex assay</li> <li>• Detects SARS-CoV-2 Omicron variants BA.1, BA.2, BA.4, and BA.5 through JN.1</li> </ul>	<ul style="list-style-type: none"> <li>• N1P detects SARS-CoV-2 Omicron variants BA.1, BA.2, BA.4, and BA.5 through JN.1</li> <li>• N2P detects Wuhan strain or later alpha, beta, gamma, or delta VOCs</li> </ul>

Primers and probes included. Mastermix and synthetic controls sold separately.

**Discover all that Cayman has to offer to support coronavirus research at our Coronavirus Resource Center.**

- Assay kits & SARS-CoV-2 neutralizing antibody detection kits
- Articles, application notes, & webinars
- Antiviral agents & screening libraries
- Proteins & antibodies
- Cayman Services



[www.caymanchem.com/coronavirus](http://www.caymanchem.com/coronavirus)

## Viral Multiplex RT-qPCR Assay Kits

Each of these multiplexed RT-qPCR assay kits includes primers and probes for pathogens and human RPP30 RNA control, synthetic positive controls, spike-in RPP30 RNA control, and RT-qPCR enzyme mastermix.

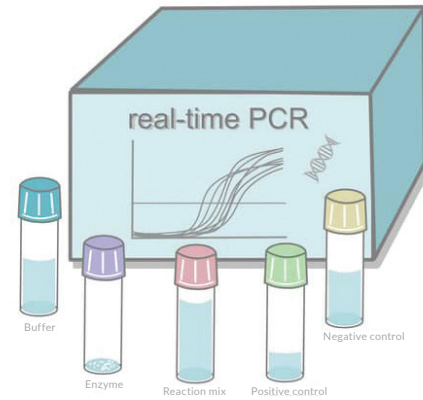
Pathogen primers and probes included	Item No. 40699	Item No. 40700	Item No. 40701	Item No. 40698	Item No. 40702	Item No. 40703	Item No. 40704
SARS-CoV-2 (Omicron N1P)		×				×	
Influenza A (H1N1 & H3N2)		×				×	
Influenza B		×				×	
RSV A						×	
RSV B						×	
<b>Four- or five-color</b>	Four-color			Five-color	Four-color		
<b>Optimized for instrument(s)</b>	Bio-Rad CFX96 or CFX384	QuantStudio 5, 6, 7, 12K	BMS MIC	Bio-Rad CFX96 or CFX384	Bio-Rad CFX96 or CFX384	QuantStudio 5, 6, 7, 12K	BMS MIC

## Enzyme Mastermixes

PCRassays.com's custom formulations from Fortis Life Sciences are designed to minimize primer dimer artifacts and for optimized C<sub>q</sub> performance. Each mastermix contains dNTPs, Mg<sup>2+</sup>, salts, buffer, glycerol, and DNA polymerase. Item No. 40706 also contains reverse transcriptase.

### Enzyme Mastermixes

Item No.	Product Name
40705	Standard qPCR Enzyme Mastermix
40706	Standard RT-qPCR Enzyme Mastermix



## Control Assays

Item No.	Product Name	Summary
40680	CrAssphage qPCR Assay	Detects CrAssphage DNA in wastewater
40681	PMMoV RT-qPCR Assay	Detects pepper mild mottle virus (PMMoV) RNA in wastewater
40682	Human RPP30-DNA Control Assay qPCR Assay	Detects human RPP30-DNA in human samples
40683	Human RPP30-RNA Control Assay RT-qPCR Assay	Detects human RPP30-RNA in human samples

Primers and probes included. Mastermix and synthetic controls sold separately.

View all products from PCRassays.com at [www.caymanchem.com/pcrassays](http://www.caymanchem.com/pcrassays)