PlexPlus®

New Innovative Technology

Next Generation PCR Multiplexing

- Maximize PCR output with ***Plex****Plus*® technology that detects twice the targets compared to conventional PCR.
- ***Plex****Plus*® technology is achieved through specialized temperature-dependent probes, with fluorescence acquired at two temperatures across multiple wavelengths in real time, enabling affordable detection with higher sample throughput.
- The inaugural product, RespiV ***Plex****Plus*®, simultaneously detects 14 respiratory viral targets in a single well, and clearly discriminates between rhinovirus and enterovirus — whilst utilizing existing standard qPCR instrumentation in laboratories.
- Formulated specifically for either 96- or 384-well PCR format, RespiV ***Plex****Plus*® kits meet your sample throughput needs.

SpeeDx

RespiV *PlexPlus*®*

One well. Double Detection.
More Targets.

DATASHEET

96-well or 384-well

Assay Reagent

RespiV ***Plex****Plus*®* (Research Use Only)

Description

RespiV ***Plex****Plus*® is a 1-well, multiplex qPCR assay that amplifies nucleic acids of the following targets when present: influenza A virus (including H1N1 and H3N2 strains), influenza B virus (Yamagata and Victoria lineages), respiratory syncytial virus (subtypes A and B), severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), human adenovirus (species B and C), human parainfluenza virus (types 1 to 4), human metapneumovirus, rhinovirus (types A, B and C) and enterovirus (types A, B, C and D). This reagent includes an extraction/amplification internal control. The reagents are compatible with the Applied Biosystems® QuantStudio™ 5 and 7 real-time PCR systems.

The RespiV ***Plex****Plus*® kit is for research use only (RUO) and is not intended for use in diagnostic procedures.

Sample Extraction

Samples should be extracted as total nucleic acid.

Product Design				
Well	**Channel**	**52 °C Temperature 1**	**76 °C Temperature 2**	**qPCR cycling duration**
1	1	Influenza B virus	SARS-CoV-2	~2 hours*
	2	Rhinovirus/enterovirus	Enterovirus	
	3	Influenza A virus	Human adenovirus (B/C)	
	4‡	Respiratory syncytial virus (A/B)	Human parainfluenza virus (1/2/3/4)	
	5	Human metapneumovirus		
	6‡	Internal control		

Instrument Compatibility		
Extraction	**Liquid Handling**	**Amplification**
Magnetic bead-based	Lab self-validation	QuantStudio 5 and QuantStudio 7

Workflow Flexiblity			
Format	**Pack Size**	**Reaction Volume**	**Cat #**
96	100 reactions	20 µL	7300201
384	384 reactions	15 µL	7300204

Shipping & Storage	
Shipping	**Storage**
Reagents — dry ice/ice packs	Store protected from light between -25°C to -15°C

‡Custom calibration required. Refer to the relevant QuantStudio platform system manual for calibration instructions. Contact tech@speedx.com.au for assistance.
* 96-well format cycling time is two hours, and the 384-well cycling takes two hours and fifteen minutes

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