*Plex*PCR® RespiVirus*

Two wells, 11 respiratory viruses

Increase productivity this flu season.

Highly multiplexed test offers workflow advantages to support influenza season surge

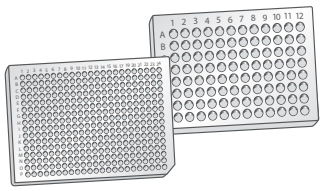
- Increase sample throughput compared with 3- or 4-well tests and run up to 1536 samples in 8 hours.
- Improve productivity with optional ***Plex****Prep* automation system, maximising instrument capacity and laboratory staff workflow.
- Free up senior laboratory staff with fast, reproducible data processing and automated results analysis.

CE IVD*

SpeeDx®

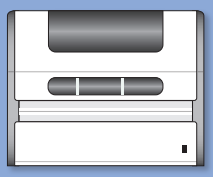
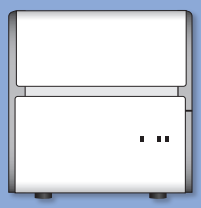
Increase respiratory virus testing throughput
11 respiratory viruses in only 2 wells

Flexibility with 96- or 384-well options



- Improve efficiency and cost-effectiveness with ***Plex****Prep* automation
- 384-well format: up to **1536 samples** in 8 hrs with a single FTE§

Example of automation workflow

27 MIN	60 MIN	48 MIN	90 MIN	10 MIN
Automated sample set-up	**Automated sample extraction**	**Liquid handling for PCR set-up**	**Maximise qPCR platform capacity**	**Automated data analysis**
				
Sample data scanned into LIS compatible format Up to 96 primary samples set-up into MagNA Pure extraction deep well plates	Full range of sample types Elute in 50 µl Input 2.5-5 µl sample with sufficient eluate for any subsequent testing	Minimal hands-on time Reduce manual errors Streamline workflow 96-well or 384-well set-up‡ 10 or 20 µl reaction volumesΦ	2-well test maximises sample throughput Up to 48 samples & controls in 96-well format Up to 192 samples in 384-well format	Software included in contract pricing Reduce senior staff hands-on time Simple transfer to LIS for streamlined workflow

§ 1 x FTE, 4 x MP96, 2 x LC480II, 6 x ***Plex****Prep*, using 384-well format
‡ Time shown for 384-well set-up with 192 samples, time for 96-well set-up with 48 samples: 13 minutes
Φ10 µl reaction for 384-well set-up, 20 µl reaction for 96-well set-up

SpeeDx *Plex*Prep™ automation solution

Automate your sample preparation and qPCR set-up with **SpeeDx *Plex*Prep™** pipetting robotics

- Compact system (63.5cm x 53.4cm, 38.5kg) with integrated touchscreen
- Compatible with 96- and 384-well plates
- Includes liquid level detection and monitored air displacement technology for accurate and reproducible performance

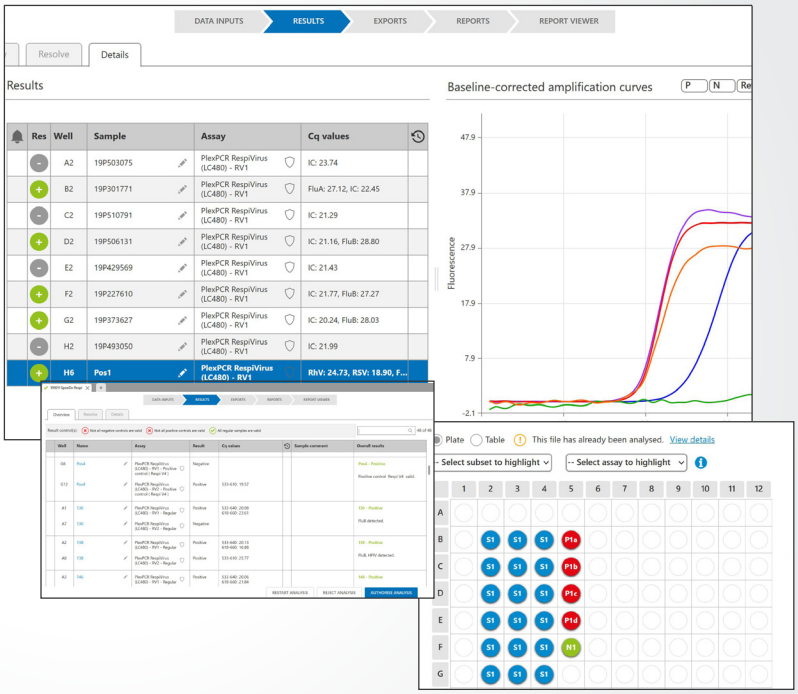
SpeeDx Analysis for ***Plex*PCR®** RespiVirus

SpeeDx Analysis software is included in contract pricing. Automate data processing and results interpretation for large numbers of samples simultaneously.

Speed up results processing and spend your time only on the few samples that require attention.

Automated plate set-up options for a streamlined workflow.

High security and GDPR compliant with LIS compatibility.



Comprehensive coverage in a 2-well test

- Detect 11 clinically relevant viral respiratory pathogens plus RNA-based Internal Control.
- Increase the capacity of your qPCR instruments without compromising performance.Ψ
- Validated with a broad range of samples: bronchoalveolar lavage, nasopharyngeal swabs, nasal swabs, throat swabs, tracheal aspirate.

Ψ Contact tech@speedx.com.au for up-to-date QAP and QCMD data

SpeeDx®

***Plex**PCR*® RespiVirus is a two-well multiplex qPCR test for the detection of 11 viral respiratory-illness causing pathogens plus RNA internal control.[1]

Powered by proprietary ***Plex**PCR*® technologies demonstrating improved multiplex performance compared with other probe-based tests.[2]

Well	Channel	Target
1	1	Influenza A (Flu A)
	2	Influenza B (Flu B)
	3	Respiratory Syncytial Viruses A and B (RSV A and B)
	4	Rhinoviruses (RhV)
	5	Internal Control
2	1	Human metapneumovirus (HMPV)
	2	Adenoviruses B and C (AdV)
	3	Human parainfluenza viruses 1,2,3 and 4 (HPIV 1-4)

Validated with bronchoalveolar lavage, nasopharyngeal swabs, nasal swabs, throat swabs, tracheal aspirates.[1]

Demonstrated clinical performance[1]

	FLU A	FLU B	RSV	RhV	HMPV	AdV	HPIV
Sensitivity	94.1%	98.0%	94.6%	96.7%	100%	100%	100%
Specificity	99.7%	99.4%	100%	96.6%	98.8%	99.7%	99.6%

Flexible platform compatibility

Sample extraction platforms	Liquid handling platforms	qPCR platforms
EasyMag (Biomerieux)	***Plex**Prep* (SpeeDx)	LC480 II 96 well
MagNA Pure 96 (Roche)	QIAgility (Qiagen)	LC480 II 384 well

Increase lab productivity this flu season with ***Plex**PCR* RespiVirus

Product	Compatible	Size	Cat#
***Plex**PCR*® RespiVirus*	LC480 II	100 reactions	1201001
***Resistance**Plus*® RespiVirus Positive Control	All platforms	10 reactions	95003
***Plex**PCR*® Colour Compensation	LC480 II	2 reactions	90001
***Plex**Prep*™ Automation Solution	MagNA Pure / LC480 II	1 unit	Enquire

References: 1. ***Plex**PCR*® RespiVirus Instructions for use. **2.** Tan LY et al, PLOS ONE. 2017; 12(1): e0170087.

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