

CE-IVD Marked

 Allplex™

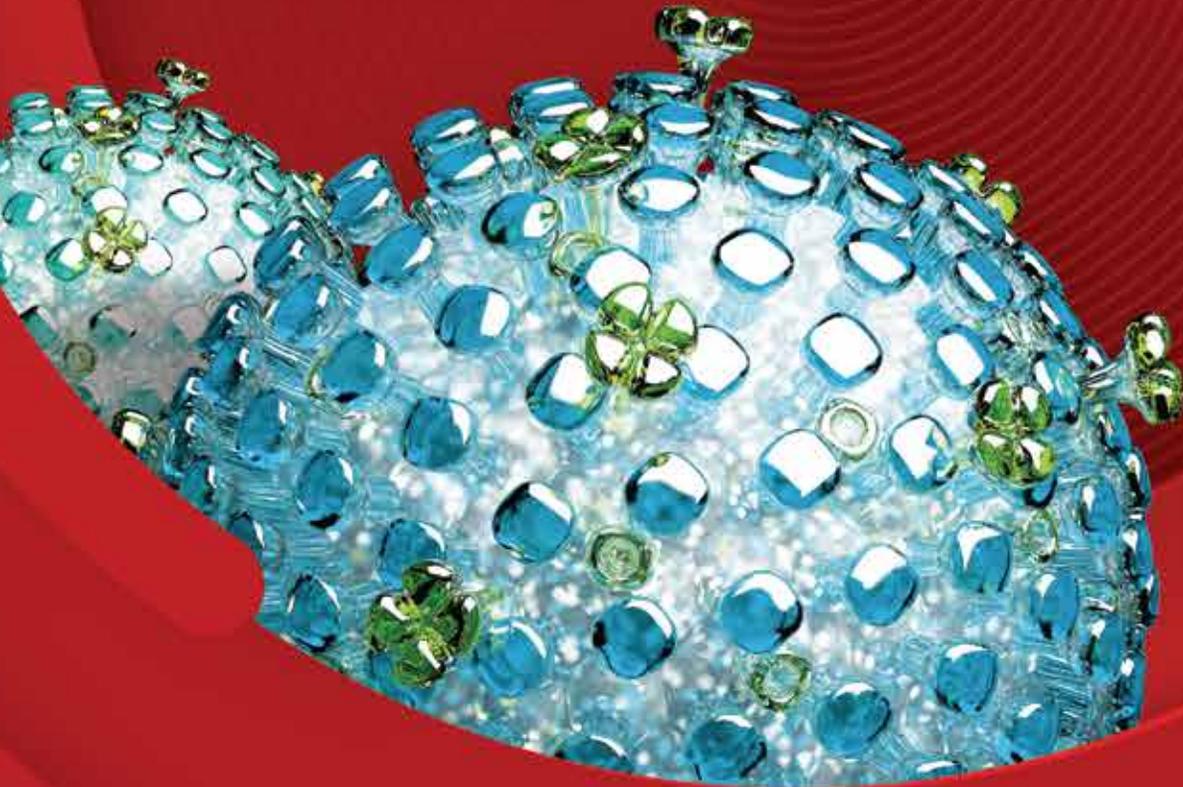
Respiratory Panel Assays

Comprehensive assay for the detection and identification of 26 pathogens using one-step real-time RT-PCR assay

16 Respiratory viruses / 3 Flu A subtypes / 7 Respiratory bacteria

World's 1st technology

Individual Ct value of multiple analyte in a single channel



HIGH SENSITIVITY & SPECIFICITY

Multiplex real-time PCR with high sensitivity and specificity by utilization of DPO™ and TOCE™ technologies





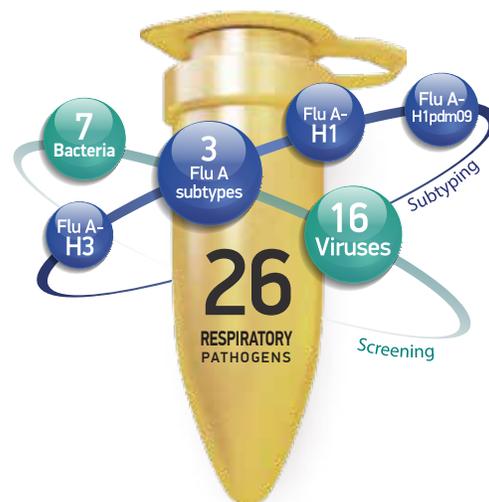
Respiratory Panel Assays

Comprehensive assay for the detection and identification of 26 pathogens using one-step real-time RT-PCR assay

Allplex™ Respiratory Panel Assays, composed of 4 different panels, is a multiplex one-step real-time RT-PCR assay to detect and identify 16 viruses, 3 Flu A subtypes and 7 bacteria in patient's specimens. Based on Seegene's proprietary MuDT™ technology, this assay makes it possible to report individual C_t value of each pathogen in a single channel on real-time PCR instrument. Allplex™ Respiratory Panel Assays allows faster, more reliable and comprehensive test results than any other products by combination with Seegene's automation platforms.

Key Features

- Full range of causative pathogens (23 pathogens with 3 Flu A subtypes) in respiratory tract infection
- Short TAT (within 4.5 hours) from extraction to the final results
- Informative data with individual C_t value for each analyte
- Useful tool for surveillance and infection control
- Automated data interpretation with Seegene Viewer



Analytes

1 tube / 1 panel

Panel 1	Panel 2	Panel 3	Panel 4
<ul style="list-style-type: none"> - Influenza A virus (Flu A) - Influenza B virus (Flu B) - Respiratory syncytial virus A (RSV A) - Respiratory syncytial virus B (RSV B) - Flu A-H1 - Flu A-H1pdm09 - Flu A-H3 - Internal Control (IC) 	<ul style="list-style-type: none"> - Adenovirus (AdV) - Enterovirus (HEV) - Parainfluenza virus 1 (PIV 1) - Parainfluenza virus 2 (PIV 2) - Parainfluenza virus 3 (PIV 3) - Parainfluenza virus 4 (PIV 4) - Metapneumovirus (MPV) - Internal Control (IC) 	<ul style="list-style-type: none"> - Bocavirus (HBoV) - Rhinovirus (HRV) - Coronavirus NL63 (CoV NL63) - Coronavirus 229E (CoV 229E) - Coronavirus OC43 (CoV OC43) - Internal Control (IC) 	<ul style="list-style-type: none"> - <i>Mycoplasma pneumoniae</i> (MP) - <i>Chlamydomphila pneumoniae</i> (CP) - <i>Legionella pneumophila</i> (LP) - <i>Haemophilus influenzae</i> (HI) - <i>Streptococcus pneumoniae</i> (SP) - <i>Bordetella pertussis</i> (BP) - <i>Bordetella parapertussis</i> (BPP) - Internal Control (IC)

Compatible Instrumentation (CE-IVD Marked)

- **Automated Extraction & PCR Setup**
Seegene NIMBUS / Seegene STARlet
- **Automated Extraction**
NucliSENS® easyMAG® (BioMérieux)

- **Real-time PCR**
CFX96™ Dx

Specimens

- Nasopharyngeal swab
- Nasopharyngeal aspirate
- Bronchoalveolar lavage
- Sputum* (Respiratory Panel 4 only)

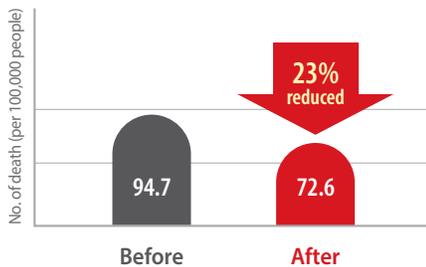
Seegene's Powerful Automation Platform for Complete Test Process

- User-friendly automation system
- Automatic data interpretation software optimized for multiplex assays
- Interlocked with LIS
- Multi-C_t values in a single channel



Effect of Applying Symptom-Based Approach on Respiratory Infections

· Mortality rates



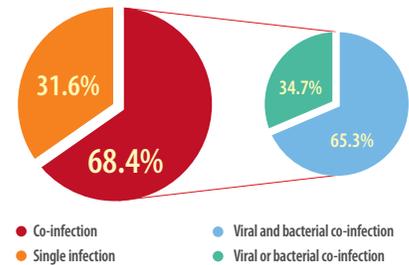
Symptom-based approach lowered mortality rate in patients with respiratory infections.¹⁾

· Drug costs



Identification of viral infections by symptom-based approach limited the inappropriate use of antimicrobials and led to reduction in treatment costs.²⁾

· Co-infection rates



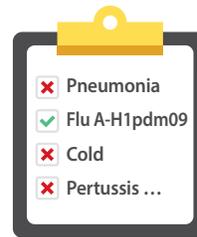
Co-infection rate in respiratory tract is relatively high, highlighting the importance of detecting both viruses and bacteria by multiplex assay.³⁾

Allplex™ Respiratory Panel Assays for Symptom-Based Approach



Allplex™ Respiratory Panel Assays

- 16 viruses
- 3 Flu A subtypes
- 7 bacteria

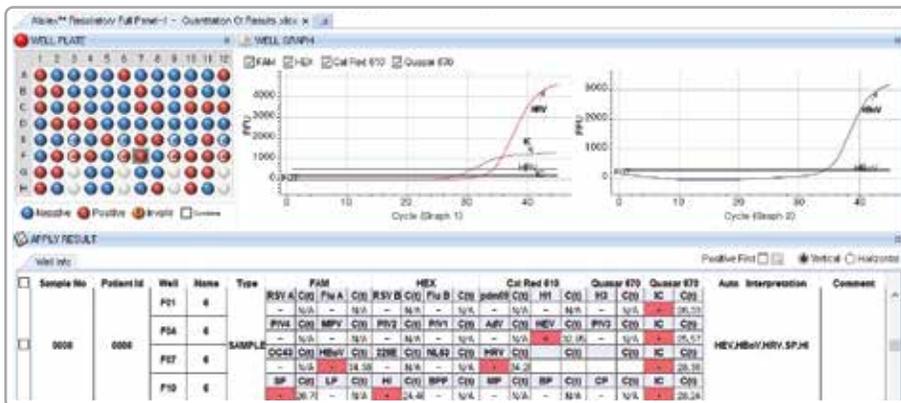


Allplex™ Respiratory Panel Assays simultaneously detects a broad range of viruses and bacteria in one sample, providing more effective and efficient results.

Reference

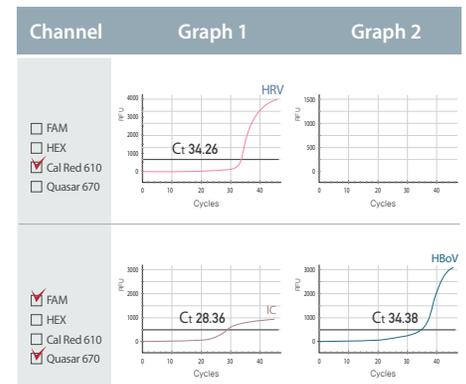
- 1) Sydykova S, et al. Kyrgyzstan Experience: Practical Approach to Lung Health Strategy – Solution for Controlling Common Respiratory Diseases. Geneva Health Forum, 18-20
- 2) Me'emary F, et al. Results of the feasibility test of the Practical Approach to Lung Health in the Syrian Arab Republic. East Mediterr Health J. (2009) 15: 504-515
- 3) Memish, Ziad A., et al. Etiology of severe community-acquired pneumonia during the 2013 Hajj – part of the MERS-CoV surveillance program. International Journal of Infectious Diseases. (2014) 25: 186-190

Result of Allplex™ Respiratory Panel Assays



Seegene Viewer provides integrated results of Allplex™ Respiratory Panel Assays. The result represents co-infection of *Streptococcus pneumoniae* (SP), *Haemophilus influenzae* (HI), Bocavirus (HBoV), Rhinovirus (HRV) and Enterovirus (HEV) with Ct values, respectively. Allplex™ Respiratory Panel Assays are able to provide the information of 16 viruses, 3 Flu A subtypes and 7 bacteria by analyzing individual Ct value using Seegene Viewer.

One channel, multi-Ct values





Respiratory Panel Assays

Key features

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Ordering Information

Not Available for Sale in the United States

Category	Product	Package Volume	Cat. No.
Allplex™	Respiratory Panel 1	50 rxns	RP9801Y
		100 rxns*	RP9801X
Allplex™	Respiratory Panel 2	50 rxns	RP9802Y
		100 rxns*	RP9802X
Allplex™	Respiratory Panel 3	50 rxns	RP9601Y
		100 rxns*	RP9601X
Allplex™	Respiratory Panel 4	50 rxns	RP9803Y
		100 rxns*	RP9803X

* For use with NIMBUS IVD and STARlet IVD only

Instrument	Type	Cat. No.
CFX96™	Real-time PCR _ Optical Reaction Module	1845097-IVD
	Real-time PCR _ Thermal Cycler	1841000-IVD
NIMBUS IVD (Microlab NIMBUS IVD)	Automated extraction & PCR Setup	65415-03
STARlet IVD (Microlab STARlet IVD)	Automated extraction & PCR Setup	67930-03
STARMag 96 X 4 Universal Cartridge kit	Nucleic acids extraction reagent	7443004UC384



Taewon Bldg. 91 Ogeum-ro, Songpa-gu, Seoul 05548, Republic of Korea / Tel : +82-2-2240-4000 / Fax : +82-2-2240-4040 / E-mail : info@seegene.com

www.seegene.com

BRAZIL

Belo Horizonte, Brazil
Tel : +55-31-25153003
E-mail : contato@seegenebrazil.com.br

CANADA

Toronto, Canada
Tel : +1-800-964-5680
E-mail : canada@seegene.com

GERMANY

Düsseldorf, Germany
Tel : +49-211-9943-4260
E-mail : sgg@seegene.com

MEXICO

México city, México
Tel : + 52 (55)-8848-9646
E-mail : mexico@seegene.com

MIDDLE EAST

Dubai, UAE
Tel : +971-4-558-7110
E-mail : sgme@seegene.com

USA

California, USA
Tel : +1-925-448-8172
E-mail : usa@seegene.com