Ct-ND Warked

ⓐ Allplex™ Respiratory Panel Assays

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

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



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 Ct 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.

- 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)

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 Ct value for each analyte
- Useful tool for surveillance and infection control
- Automated data interpretation with Seegene Viewer

Analytes

- Flu A-H1

- Flu A-H3

- Flu A-H1pdm09

- Internal Control (IC)

- Panel 2
 - Bocavirus (HBoV)
 - Rhinovirus (HRV)
 - Coronavirus NL63 (CoV NL63)

Panel 3

- Coronavirus 229E (CoV 229E)
- Coronavirus OC43 (CoV OC43)
- Internal Control (IC)

- Internal Control (IC)

* Pending Health Canada submission and authorization

Compatible Instrumentation (CE-IVD Marked)

- Automated Extraction & PCR Setup Seegene NIMBUS / Seegene STARlet

Panel 1

- Respiratory syncytial virus A (RSV A)

- Respiratory syncytial virus B (RSV B)

- Influenza A virus (Flu A)

- Influenza B virus (Flu B)

- Automated Extraction NucliSENS® easyMAG® SEEPREP32[™]

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-Ct values in a single channel

- Real-time PCR CFX96™ Dx
- **Specimens**
- Nasopharyngeal swab
- Nasopharyngeal aspirate
- Bronchoalveolar lavage
 - Sputum* (Respiratory Panel 4 only)



- 1 tube / 1 panel

6 Viruses

- Panel 4
- Bordetella parapertussis (BPP)

RESPIRATORY PATHOGENS

- Bordetella pertussis (BP)

Flu A subtype

- Chlamydophila pneumoniae (CP)
- Haemophilus influenzae (HI) - Legionella pneumophila (LP)
- Mycoplasma pneumoniae (MP)
- Streptococcus pneumoniae (SP)

Effect of Applying Symptom-Based Approach on Respiratory Infections

· Drug costs



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

Before After

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



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



One channel, multi-Ct values



Seegene Viewer provides integrated results of Allplex[™] Respiratory Panel Assays. The result represents co-infection of *Steptococcus pneumoniae* (SP), *Haemoph-ilus 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.



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Key features

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- Short TAT (within 4.5 hours) from extraction to the final results
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Ordering Information

Category	Product	Package Volume	Cat. No.
		25 rxns*	RP10179Z
Allplex™	Respiratory Panel 1	50 rxns	RP9801Y
		100 rxns*	RP9801X
Allplex™		25 rxns*	RP10180Z
	Respiratory Panel 2	50 rxns	RP9802Y
		100 rxns*	RP9802X
Allplex™		25 rxns*	RP10181Z
	Respiratory Panel 3	50 rxns	RP9601Y
		100 rxns*	RP9601X
Allplex™		25 rxns*	RP10182Z
	Respiratory Panel 4	50 rxns	RP9803Y
		100 rxns*	RP9803X

Instrument	Cat. No.	
CFX96™ Dx (2 modules)	1845097-IVD & 1841000-IVD	
Seegene NIMBUS	65415-03	
Seegene STARIet	67930-03	
SEEPREP32™	SG71100	
STARMag 96 X 4 Universal Cartridge Kit*	744300.4.UC384	
STARMag 96 X 4 Viral DNA/RNA 200 C Kit*	EX00013C	
CTA DM- = 00 D== D=== ##	EX00009P	
SIAKMag 96 ProPrep^^	EX00009T	
574.0M-+ 0.4 De-D 6##	EX00017P	
STARWag 96 ProPrep C**	EV00017T	

* For use with Seegene NIMBUS and Seegene STARlet, ** For use with SEEPREP32™

Not Available for Sale in the United States

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