CEND Marked

ⓐ Allplex™ RV Essential Assay

Essential screening assay of 7 common viruses in a single tube

- Influenza A virus (Flu A)

- Influenza B virus (Flu B)

- Metapneumovirus (MPV)

- Respiratory syncytial virus A/B (RSV)

- Parainfluenza virus 1/2/3/4 (PIV) - Adenovirus (AdV) - Human rhinovirus A/B/C (HRV) Mond's 1st technology Individual Ct value of multiple analyte in a single of a



HIGH SENSITIVITY & SPECIFICITY Multiplex real-time PCR with high sensitivity and specificity by

n of DPO[™] and TOCE[™] tech

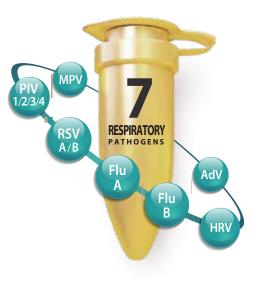


Allplex[™] RVEssential Assay

Essential screening assay of 7 common respiratory viruses in a single tube

Respiratory infections are one of the most common diseases that can be experienced throughout life.¹⁾ The economic losses due to influenza are increasing every year, especially in the flu season, an estimated annual more than \$10 billion in direct costs for hospitalizations and outpatient visits for adults.²⁾ However, not only influenza but also other pathogens are involved in causing respiratory infections.^{31,41,51,61} There are 500 million non-influenza related VRTI(Viral respiratory tract infection) cases occur per year.⁷⁾

Allplex[™] RV Essential Assay(EA) is a multiplex One-step reverse transcription real-time PCR assay in one-step for screening of Flu A, Flu B and RSV A/B with MPV, PIV, AdV and HRV in a single tube. This assay reports Individual Ct value of multiple analytes in a single channel on real-time PCR instruments. This assay is an ideal assay for screening essential respiratory pathogens by providing insightful solutions in cost- and time-saving manners.



Key Features

- One-step multiplex real-time reverse transcription PCR for screening 7 common causative agents of respiratory infections
- Reliable results within 2 hours after extraction
- Informative data with individual Ct value for multiple analytes
- Cost and time savings with only one tube
- Automated data interpretation with Seegene Viewer

Compatible Instrumentation (CE-IVD Marked)

- Automated Extraction & PCR Setup Seegene NIMBUS / Seegene STARIet
- Automated Extraction NucliSENS® easyMAG® M SEEPREP32™ Ki MagNA Pure 96

Maelstrom™ 9600 KingFisher™ Flex - Real-time PCR

CFX96[™] Dx

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

Extraction & PCR Setup STARlet IVD Extraction CFX96^T Real-time PCR Data Analysis CFX96^T CFX96^T CFX96^T CFX96^T

Analytes

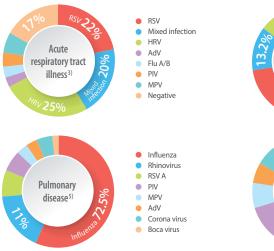
- Influenza A virus (Flu A)
- Influenza B virus (Flu B)
- Metapneumovirus (MPV)
- Respiratory syncytial virus A/B (RSV)
- Parainfluenza virus 1/2/3/4 (PIV)
- Adenovirus (AdV)
- Human rhinovirus A/B/C (HRV)
- Internal Control (IC)

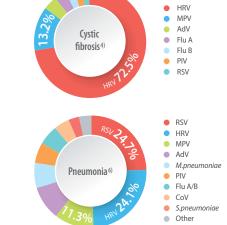
Specimens

- Nasopharyngeal swab
- Nasopharyngeal aspirate
- Bronchoalveolar lavage









Allplex[™] RV Essential Assay screens of 7 common respiratory viruses that cause respiratory diseases such as acute respiratory tract illness, cystic fibrosis, pulmonary disease and pneumonia.

Reference

1) Johns Hopkins Medicine Health Library. http://www.hopkinsmedicine.org/healthlibrary/conditions/pedi-

atrics/upper_respiratory_infection_uri_or_common_cold_90,P02966 (2016) 2) Getting the flu can wreak havoc on your finances CNBC Personal Finance (2017) 3) Diagnosis of respiratory syncytial virus infection. Open Microbiol J. (2011) 4) Incidence and clinical impact of respiratory viruses in adults with cvstic fibrosis.

Thorax. (2014)

5) Respiratory viruses in acute exacerbations of chronic obstructive pulmonary disease. Lung India. (2017)

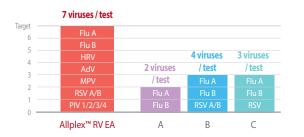
6) Community-Acquired Pneumonia Requiring Hospitalization among U.S. Children. NEJM (2015)

7) The Economic Burden of Non-Influenza-Related Viral Respiratory Tract Infection in the United States. Arch Intern Med (2003)

Enhancement of Operational Efficiency

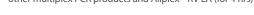


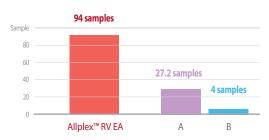
Comparison of coverage between other screening products and Allplex™ RV EA



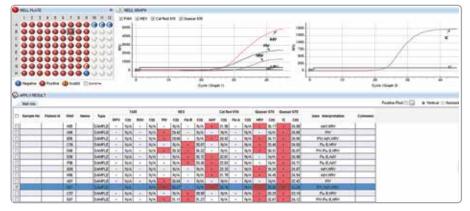
High throughput

Comparison of test throughput between other multiplex PCR products and Allplex[™] RV EA (for 4 hrs)



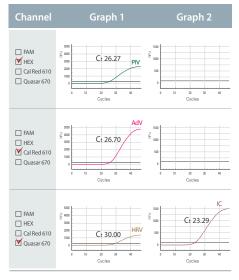


Result of Allplex[™] RV Essential Assay



The result represents co-infection of PIV and AdV in HEX and Cal Red 610 channels with Ct values of 26.27 and 26.70 (Graph 1), respectively. It also represent the infection of HRV with Ct value of 30.00 (Graph 1) in Quasar 670 channel. Allplex[™] RV Essential Assay is able to provide the individual Ct value of multiple pathogens using Seegene Viewer.

One channel, multi-Ct values





ⓐ Allplex™ RV Essential Assay

- One-step multiplex real-time reverse transcription PCR for screening 7 common causative agents of respiratory infections
- Reliable results within 2 hours after extraction
- Informative data with individual Ct value for multiple analytes
- Cost and time savings with only one tube
- Automated data interpretation with Seegene Viewer

Ordering Information

Product	Volume	Cat. No.
Allplex [™] RV Essential Assay	50 rxns	RV9750Y
	100 rxns*	RV9750X
Instrument		Cat. No.
CFX96™ Dx (2 modules)	1845097-IVD & 1841000-IVD	
Seegene NIMBUS	65415-03	
Seegene STARIet	67930-03	
SEEPREP32™	SG71100	
Maelstrom [™] 9600	M9600	
STARMag 96 X 4 Universal Cartridge kit*	744300.4.UC384	
STARMag 96 x 4 viral DNA/RNA 200 C kit*	EX00013C	
STARMag 96 ProPrep (Plate type)**	EX00009P	
STARMag 96 ProPrep (Tube type)**	EX00009T	
STARMag 96 ProPrep C (Plate type)**	EX00017P	
STARMag 96 ProPrep C (Tube type)**	EX00017T	
TANBEAD® Nucleic Acid Extraction kit***		
OptiPure Viral Auto Tube	W665S66	
OptiPure Viral Auto Plate	W665A46	
OptiPure Viral Bulk Plate	W665A10	

* For use with Seegene NIMBUS and Seegene STARlet only, ** For use with SEEPREP32 *** For use with Maelstrom[™] 9600

- Not Available for Sale in the United States

Seegene

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
