

CE-IVD Marked

World's 1st technology

 Allplex™

PneumoBacter Assay

Simultaneous detection and identification of respiratory bacteria associated with pneumonia using real-time PCR
7 respiratory bacteria associated with pneumonia

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





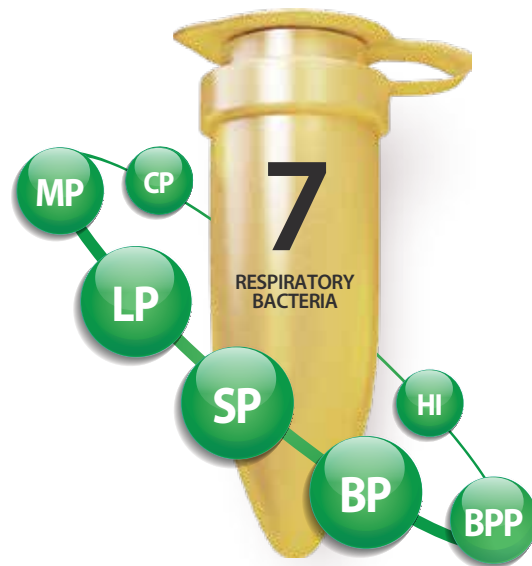
Allplex™ PneumoBacter Assay

Simultaneous detection and identification of 7 respiratory bacteria associated with pneumonia using multiplex real-time PCR

Respiratory tract infection, mainly in the form of pneumonia, is known as common causes of death among infectious diseases, especially in children and the elderly. A traditional approach divides patients with pneumonia into those with typical and atypical manifestations, leading to the prescription of different antibiotics for each of these conditions. Therefore, it is significant to identify the causative organisms quickly and accurately to ensure successful treatment and prevent the spread of disease.

Microbiological diagnosis is considered critical for proper patient treatment. However this test may delay the detection and diagnosis of causative organisms or may not provide sufficient information for diagnosis and most studies reported, difficulties with etiologic diagnosis in 50% of CAP (community-acquired pneumonia).

Allplex™ PnemoBacter Assay is a multiplex Real-time PCR assay to detect and identify 7 respiratory bacteria associated with pneumonia. Based on Seegene's proprietary MuDT™ technology, this assay reports multiple Ct values of each pathogen in a single channel.



Key features

- Simultaneous detection of 7 respiratory bacteria associated with pneumonia
- Syndromic diagnosis of respiratory diseases through simultaneous testing with Allplex™ Respiratory virus panel assays
- Reliable results within 2.5 hours after extraction
- Provides comprehensive result for proper antibiotics selection and patient management

Analytes

- *Mycoplasma pneumoniae* (MP)
- *Chlamydomphila pneumoniae* (CP)
- *Legionella pneumophila* (LP)
- *Haemophilus influenzae* (HI)
- *Streptococcus pneumoniae* (SP)
- *Bordetella pertussis* (BP)
- *Bordetella parapertussis* (BPP)

Compatible instrumentation (CE-IVD Marked)

- **Automated Extraction & PCR Setup :**
Seegene NIMBUS
Seegene STARlet
- **Automated Extraction :**
NucliSENS® easyMAG® (BioMérieux)
SEEPREP32™
- **Real-time PCR :**
CFX96™ Dx

Specimens

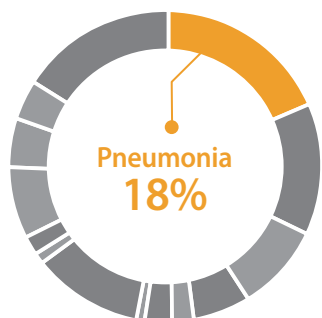
- Nasopharyngeal swab
- Nasopharyngeal aspirate
- Bronchoalveolar lavage
- Sputum

Seegene's Powerful Automation Platform for Complete Test Process

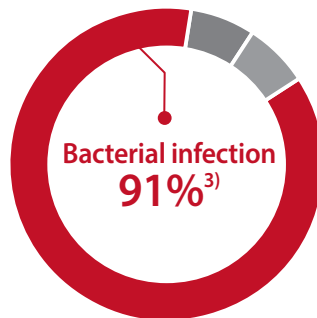


- User-friendly automation system
- Automatic data interpretation software optimized for multiplex assays
- Interlocked with LIS
- Multi-Ct values in a single channel

Pneumonia-The biggest killer of children worldwide



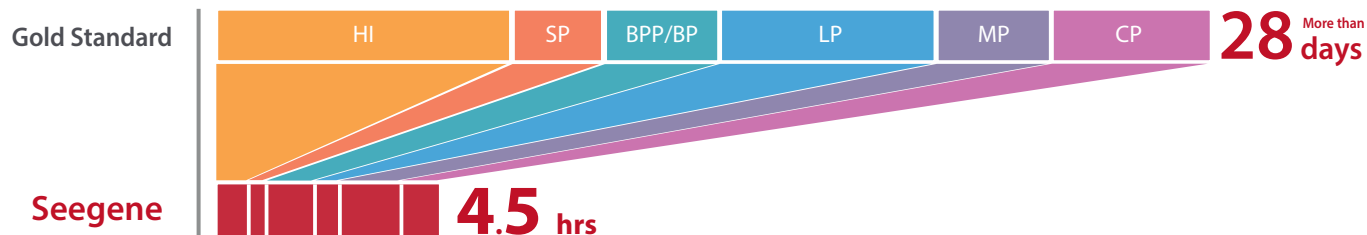
Global distribution of deaths among children <5y by cause, 2010¹⁾



Bacteria and virus infections in infants with pneumonia²⁾

1. WHO Global Health Observatory and Black R et al. Lancet, 2008, 371:243-260 (5,6)
 2. M. Honkinen, et al., Clin Microbiol Infect, 2012; 18, 300-307
 3. Bacterial infection 25%, Bacteria&virus co-infection 66%

How much time do we need to identify the killer?

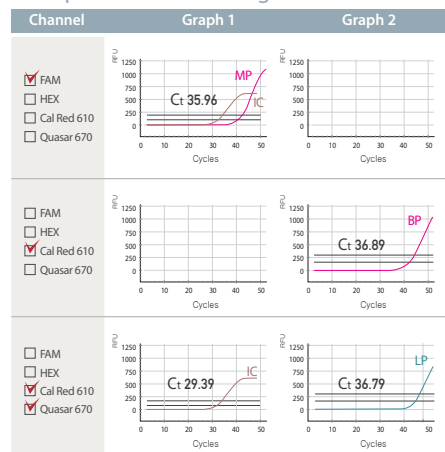


- **HI** 2nd most common, One of neonatal infection
- **SP** Most common, Serious illness
- **BPP** Severe or fatal pertussis, very contagious
- **BP** Not covered by pertussis vaccine
- **LP** Cause Legionnaires' disease
- **MP** Cause nervous system and cardiovascular complications
- **CP** Cause or worsen asthma symptom

Results of Allplex™ PneumoBacter Assay



Multiple Ct value in a single channel





PneumoBacter Assay

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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™	Pneumo Bacter Assay	25 rxns	PB10185Z
		50 rxns	PB10175Y
		100 rxns*	PB10176X

* For use with NIMBUS IVD and STARlet IVD only

Instrument	Type	Cat. No.
CFX96™ Dx	Real-time PCR_ Optical Reaction Module	1845097-IVD
	Real-time PCR_ Thermal Cycler	1841000-IVD
Seegene NIMBUS	Automated extraction & PCR Setup	65415-03
Seegene STARlet	Automated extraction & PCR Setup	67930-03
STARMag 96 X 4 Universal Cartridge kit	Nucleic acids extraction reagent	744300.AUC384



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