

Easy and Fast



NeoPlex™

Innovative Multiplex  
Real-Time PCR Assay

# NeoPlex™ Respiratory Bacteria Panel RB-8 Detection

CE-IVD Marked

## Simultaneous Detection of 8 Respiratory Bacteria

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

Single-Tube Multiplex PCR Test  
One-Step Real-Time PCR  
Automation Support

### ● Single-Tube Real-Time PCR Reaction

By Genematrix's Proprietary C-Tag™ Technology

### ● High Inclusivity

Identifies 8 major bacteria that cause acute lower respiratory tract infections  
Also detects *M. catarrhalis*, a common cause of pneumonia associated with COPD\*  
*B. parapertussis* is also detectable which cannot be prevented by Pertussis vaccine

\*COPD: Chronic obstructive pulmonary disease

### ● Superior Clinical Performance

LOD : < 10-50 copies/rxn  
Clinical Sensitivity: 98.4% - 100%  
Clinical Specificity: 99.7% - 100%

### ● Ease of Use

Automated analysis with NeoPlex™ Viewer software  
One-Step RT-PCR without separate cDNA synthesis step

### ● Fast Turnaround Time (TAT)

Within 4 hour from nucleic acid extraction to result analysis, enabling same-day report

## Workflow

### C-Tag™ Multiplex Real-Time PCR

**Step 1 (1 hr)**  
DNA Extraction



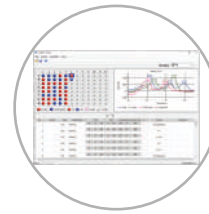
Manual or Automatic Extraction

**Step 2 (2 hr 30min)**  
Single-Tube Real-Time PCR



CFX96™ Real-Time PCR

**Step 3 (5 min)**  
Data Analysis



NeoPlex™ Viewer

- Simultaneous Detection of 8 Bacterial Respiratory Pathogens in a Single PCR Test
- Fast Turnaround: Less than 4 Hour of Analysis and Same-Day Report

## Compatible Instruments

Compatible with Automatic Nucleic Acid extraction equipment  
CFX96 Real-Time PCR System (Bio-Rad)

## Specimens

Nasopharyngeal swab  
Sputum

## Series Products

NeoPlex™ RV-Panel A : Flu A, Flu A-H1N1pdm09, Flu A-H3N2, Flu B, RSV A, RSV B, PIV 1, 2, 3, AdV

NeoPlex™ RV-Panel B : CoV - OC43, NL63, 229E, HKU1, hBoV, hRV, hEV, PIV4, hMPV

NeoPlex™ RV-Flu/RSV : Flu A, Flu A-H1N1, Flu A-H1N1pdm09, Flu A-H3N2, Flu B, RSV A, RSV B

RB: respiratory bacterial pathogens, RV: respiratory viral pathogens

## Ordering Information

Cat No.	Product	Description	Method	Size
NR02A	NeoPlex™ RB-8 Detection Kit	Simultaneous Detection of 8 Respiratory Bacteria causing Pneumonia, Pertussis, and Others in a Single Test	Multiplex Real-Time PCR	96 Tests/Kit
NR03A	NeoPlex™ RV-Panel A Detection Kit	Simultaneous Detection of 10 Viral Respiratory Pathogens in a Single Test	Multiplex Real-Time RT-PCR	96 Tests/Kit
NR04A	NeoPlex™ RV-Panel B Detection Kit	Simultaneous Detection of 9 Viral Respiratory Pathogens in a Single Test	Multiplex Real-Time RT-PCR	96 Tests/Kit
NR01A	NeoPlex™ RV-Flu/RSV Detection Kit	Simultaneous Detection of Influenza virus A/B, Respiratory Syncytial virus A and B in a Single Test	Multiplex Real-Time RT-PCR	96 Tests/Kit

### GeneMatrix Inc.

KoreaBio Park B Bldg. 8F  
700 Daewangpangyo-ro, Bundang-gu  
Seongnam-si, Gyeonggi-do, 13488  
South Korea  
Tel : +82-31-628-2020  
Email : sales@genematrix.net