

RPP22

22 most common
respiratory
pathogens

RPP40

Broad-spectrum
coverage of
40 respiratory
pathogens

RPP4

Influenza A,
Influenza B, RSV,
SARS-CoV-2



Respiratory Pathogen Panels

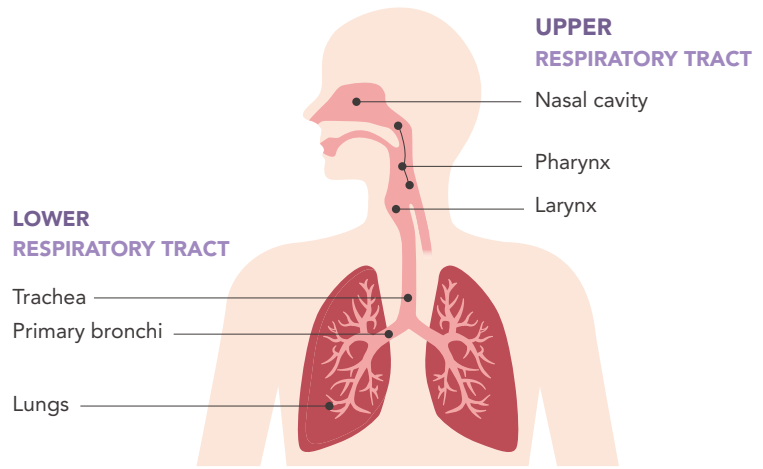
Comprehensive detection of respiratory co-infections in
a single test for better patient outcomes and reduced costs

Respiratory Tract Infections (RTIs)

affect the sinuses, throat, airways, and lungs.

Upper RTIs, such as the common cold, usually cause mild symptoms like a runny nose or sore throat, while **lower RTIs**, including pneumonia, can be severe and may require hospitalization.

RTIs can be caused by **viruses, bacteria, or fungi**, affecting both the upper and lower respiratory tracts.



RTIs can be caused by many pathogens, but most tests detect only few of them.



RTI symptoms are often complex, and antibiotics are frequently prescribed in primary care.

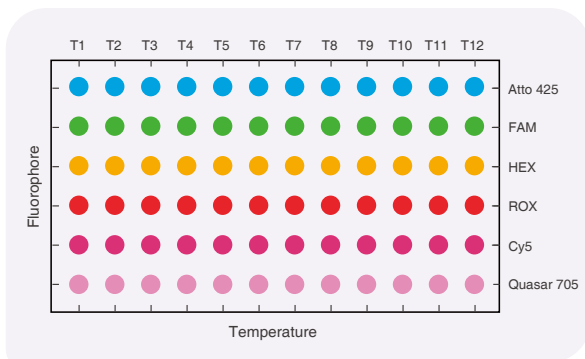


Overuse of antibiotics contributes to antibiotic resistance.

Comprehensive panel-based respiratory tests can help reduce unnecessary antibiotic use and shorten hospital stays.

+ Technology

Patented **Multicolor Melting Curve Analysis (MMCA®)** and **MeltArray** maximize the number of targets per channel, delivering high-level multiplex detection in a single reaction while saving samples and time.



*Huang et al, PNAS 2022

MMCA 2D Label = Fluorescence Channels + Melting Curve

One test, one sample, up to 40 pathogens identified



**20
Viruses**



**17
Bacteria**



**3
Fungi**

+ Sample Types

Oropharyngeal swab

Nasopharyngeal swab

Sputum

BALF

+ Advantages



Covering a wide range of respiratory pathogens



Pre-loaded reagents for easy handling



Unique MMCA® / MeltArray multiplex PCR to save precious samples



Compatible with multiple sample types

+ Respiratory Pathogen Panels

RPP4

- Influenza A virus
- Influenza B virus
- Respiratory Syncytial Virus (RSV)
- SARS-CoV-2

RPP22

18 Viruses

- Adenovirus
- Bocavirus
- Coronavirus 229E
- Coronavirus HKU1
- Coronavirus NL63
- Coronavirus OC43
- Enterovirus
- Human Metapneumovirus (HMPV)
- Influenza A Virus (H1N1/H1N1-2009/H3N2/H5N1/H7N9)
- Influenza B Virus (Victoria/Yamagata)
- Parainfluenza Virus I
- Parainfluenza Virus II
- Parainfluenza Virus III
- Parainfluenza Virus IV
- Rhinovirus
- RSV A
- RSV B
- SARS-CoV-2

4 Bacteria

- *Bordetella parapertussis*
- *Bordetella pertussis*
- *Chlamydomphila pneumoniae*
- *Mycoplasma pneumoniae*

RPP40

20 Viruses

- Adenovirus (C)
- Adenovirus (B/E)
- Bocavirus
- Coronavirus 229E
- Coronavirus OC43
- Coronavirus NL63
- Coronavirus HKU1
- Enterovirus
- Human Metapneumovirus (HMPV)
- Influenza A Virus (H1N1/H1N1-2009/H3N2/H5N1/H7N9)
- Influenza B Virus (Victoria/Yamagata)
- MERS-CoV
- Parainfluenza Virus I
- Parainfluenza Virus II
- Parainfluenza Virus III
- Parainfluenza Virus IV
- Rhinovirus
- RSV A
- RSV B
- SARS-CoV-2

17 Bacteria

- *Acinetobacter baumannii*
- *Bordetella parapertussis*
- *Bordetella pertussis*
- *Chlamydomphila pneumoniae*
- *Chlamydomphila psittaci*
- *Escherichia coli*
- *Haemophilus influenzae*
- *Klebsiella pneumoniae*
- *Legionella pneumophila*
- *Moraxella catarrhalis*
- *Mycoplasma pneumoniae*
- *Pseudomonas aeruginosa*
- *Rickettsia*
- *Staphylococcus aureus*
- *Staphylococcus epidermidis*
- *Streptococcus pneumoniae*
- *Streptococcus pyogenes*

3 Fungi

- *Aspergillus fumigatus*
- *Cryptococcus*
- *Pneumocystis jirovecii*

+ High-throughput Workflow



Automated Nucleic Acid Extraction
(Up to 96 samples)



or



qPCR Detection
(Up to 94 samples)



Data Interpretation

Cat. No.	Product	Size
607104/606104	Lab-aid Virus RNA Extraction Kit	48 Tests/Kit
610101	Pathogen Nucleic Acid Extraction Kit (Lab-Aid 896)	96 Test/Kit
801113	Respiratory Pathogen Panel (RPP4D)	48 Tests/Kit
801959	Respiratory Pathogen Panel (RPP22D)	48 Tests/Kit
801960	Respiratory Pathogen Panel (RPP22D)*	48 Tests/Kit
801917	Respiratory Pathogen Panel (RPP40D)	48 Tests/Kit

*Compatible with Bio-Rad CFX96™ Systems

+ Integrated Workflow



Sanity 2.0s System

- Flexible loading of 1-4 samples
- Easy setup
- Pre-loaded reagent cartridges
- Fully automated

Cat. No.	Product	Size
608101	Sanity 2.0-Pathogen Nucleic Acid Extraction Kit*	24 Tests/Kit
608501	Sanity 2.0-Pathogen Nucleic Acid Extraction Kit	24 Tests/Kit
801112	Sanity-2 Respiratory Pathogen Panel (RPP4)*	24 Tests/Kit
801406	SARS-CoV-2 Test Kit (Sanity 2.0)	24 Tests/Kit
801949	Sanity-2 Respiratory Pathogen Panel (RPP22)	24 Tests/Kit
801950	Sanity-2 Respiratory Pathogen Panel (RPP22)	24 Tests/Kit
801918	Sanity-2 Respiratory Pathogen Panel (RPP40)	24 Tests/Kit

* Must run 4 samples in a batch



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