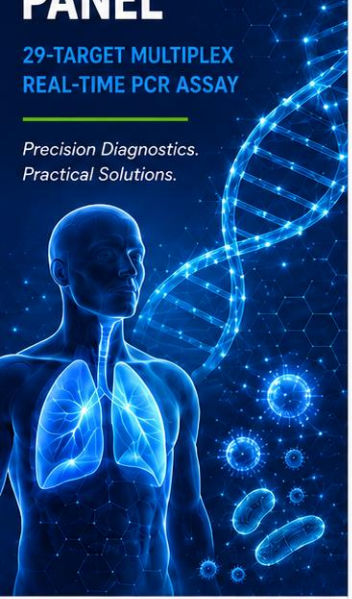
STEPHENS MOLECULAR GROUP

RESPIRATORY PANEL

29-TARGET MULTIPLEX REAL-TIME PCR ASSAY

Precision Diagnostics.
Practical Solutions.



PRODUCT CODE
SMG-RSP-2901

29 TARGETS
ONE POWERFUL ASSAY

CLINICAL OVERVIEW

The SMG Respiratory Panel is a 29-target multiplex real-time PCR assay designed for the qualitative detection of viral and bacterial pathogens associated with respiratory tract infections. The assay delivers high analytical performance and broad pathogen coverage to support accurate diagnosis, effective patient management, and infection control.

CLINICAL APPLICATIONS

- Hospital Laboratories
- Reference Laboratories
- Urgent Care
- Physician Office Laboratories
- Independent Molecular Laboratories

KEY FEATURES

29 RESPIRATORY TARGETS
Comprehensive detection of viral and bacterial pathogens in a single assay.

MULTIPLEX REAL-TIME PCR
Highly sensitive and specific results with rapid turnaround time.

BROAD VIRAL & BACTERIAL DETECTION
Covers the most clinically relevant respiratory pathogens.

STREAMLINED WORKFLOW
Single reaction workflow saves time, reduces hands-on time, and increases laboratory efficiency.

TECHNICAL SUPPORT
Experienced molecular scientists available to support your laboratory's success.

VALIDATION MATERIALS & SUPPORT AVAILABLE
Comprehensive documentation and validation assistance provided.

COMPATIBLE PLATFORMS

Validated on leading real-time PCR instruments.



Thermo Fisher QuantStudio™ 5



Thermo Fisher QuantStudio™ 12 Flex

Other Compatible Real-Time PCR Systems

COMPLETE TARGET LIST

Viruses

- SARS-CoV-2
- Influenza A
- Influenza A H1
- Influenza A H1-2009
- Influenza A H3
- Influenza B
- RSV A
- RSV B
- Human Rhinovirus/Enterovirus
- Human Metapneumovirus
- Parainfluenza Virus 1
- Parainfluenza Virus 2
- Parainfluenza Virus 3
- Parainfluenza Virus 4
- Adenovirus

Bacteria

- Coronavirus 229E
- Coronavirus HKU1
- Coronavirus NL63
- Coronavirus OC43
- Bordetella pertussis
- Bordetella parapertussis
- Mycoplaopma pneumoniae
- Haemophilus influenzae
- Streptoccccus pneumoniae
- Moraxella catarrhalis
- Legionella pneumophila
- Staphylococcus aureus
- RNase P (RPP30)

High analytical sensitivity and specificity for reliable results you can trust.

WHY STEPHENS MOLECULAR GROUP?

We do more than supply reagents. We partner with your laboratory for long-term success.

ASSAY IMPLEMENTATION
Expert guidance for smooth assay adoption and integration.

VALIDATION PLANNING
Customized plans to meet regulatory and accreditation requirements.

SOP DEVELOPMENT
Comprehensive standard operating procedures tailored to your lab.

WORKFLOW OPTIMIZATION
Improve efficiency, reduce costs, and maximize productivity.

STAFF TRAINING
Hands-on training and resources for your laboratory team.

ONGOING TECHNICAL SUPPORT
Responsive molecular expertise when you need it.

MOLECULAR LABORATORY CONSULTING
Strategic support for growth and operational excellence.

INSPECTION READINESS ASSISTANCE
Support for CAP, CLIA, and other regulatory inspections.

VALIDATION MATERIALS & SUPPORT AVAILABLE
Ask about our comprehensive validation packages.