



RespiFinder® SMART 22 | Product Brochure

Single tube Multiplex Amplification in Real Time

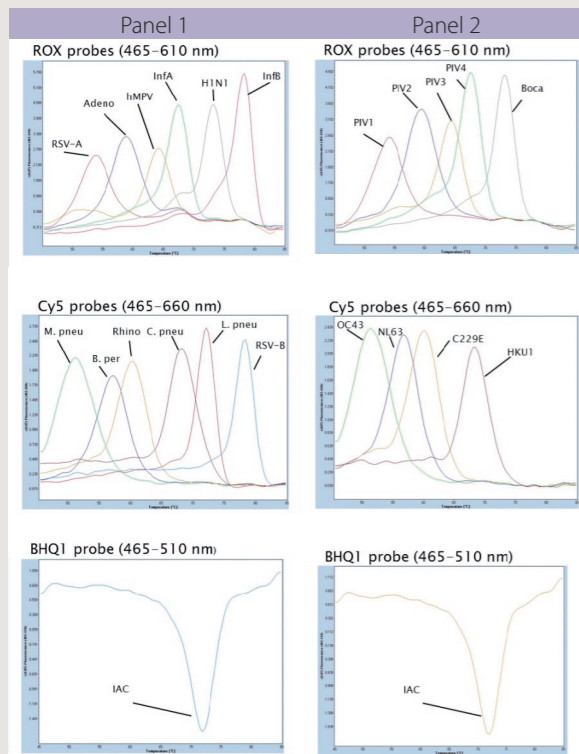


Overview

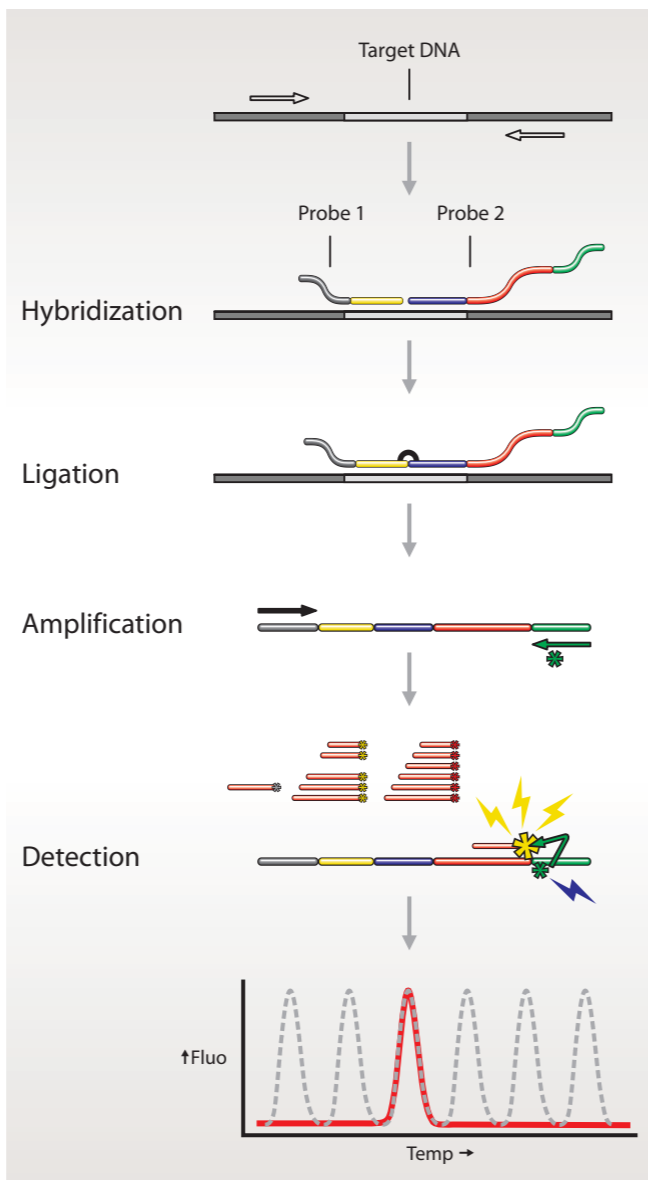
Acute respiratory tract infection (RTI) is the most widespread type of acute infection in adults and children and is a significant cause of disease in immunocompromised patients. Both viruses and bacteria can cause acute RTI, and the number of causative pathogens is large as well as diverse. Multiparameter Real Time PCR based tests provide a fast and accurate means of molecular diagnostics. RespiFinder® SMART 22 is a ready to use set of primers, probes and enzymes for the simultaneous detection and differentiation of 22 respiratory pathogens in 6 hours, with the same sensitivity and specificity as monoplex Real Time PCR.

Features and Benefits

- 18 viral + 4 bacterial pathogens in one assay
- As sensitive as monoplex Real Time PCR
- Contains a competitive internal amplification control
- Diagnosis within 6 hours
- Validated on QCMD panels
- **CE IVD** marked



RespiFinder® SMART Assay Details



Product

RespiFinder® SMART 22 (50 assays)

Catalog No. PF2100-S



Targets

Panel 1	Panel 2
<ul style="list-style-type: none"> • Internal Amplification Control • Influenza A • Influenza B • Influenza A H1N1v • RSV-A • RSV-B • Human Metapneumovirus • Rhinovirus/Enterovirus • Adenovirus • Mycoplasma pneumoniae • Chlamydomphila pneumoniae • Legionella pneumophila • Bordetella pertussis 	<ul style="list-style-type: none"> • Internal Amplification Control • Parainfluenza-1 • Parainfluenza-2 • Parainfluenza-3 • Parainfluenza-4 • Bocavirus • Coronavirus NL63 • Coronavirus HKU1 • Coronavirus 229E • Coronavirus OC43

Procedure

The RespiFinder® SMART 22 assay is based on our proprietary SmartFinder™ technology, which allows a highly complex analysis of up to 25 targets in a single reaction. After a gene-specific multiplex reverse transcription step, the sample is split into two tubes. Two unique probes are hybridized to the (c)DNA of each pathogen present in the clinical specimen. Hybridized probes are then connected by a ligase enzyme. Subsequently, the ligated probes are amplified using a universal PCR primer pair and detected by melting curve analysis on Real Time PCR systems. The amplification and detection of the probes is performed in a single closed tube.

Clinical Specimens

- Nasopharyngeal aspirate/lavage
- Swabs
- Bronchoalveolar lavage (BAL)
- Sputa

Internal Control

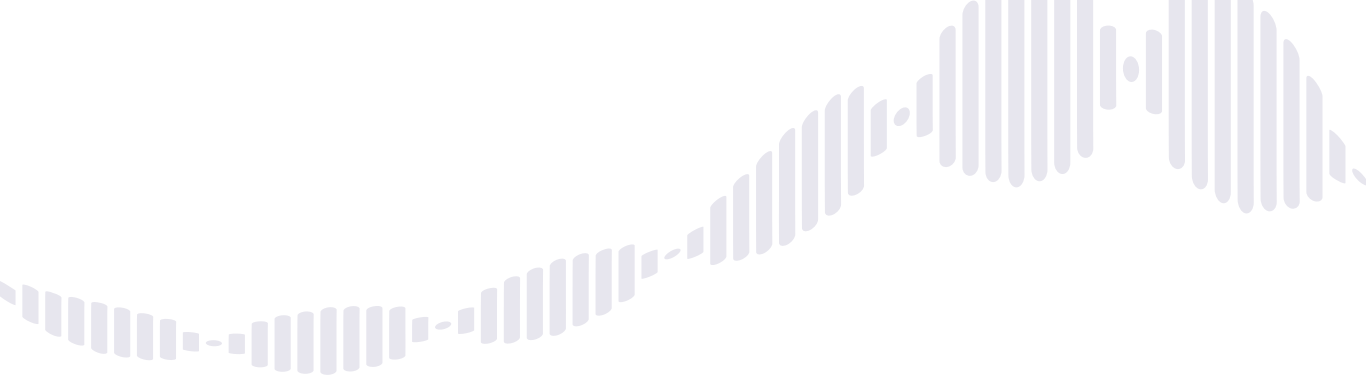
The Internal Amplification Control is a RNA transcript from the encephalomyocarditis (EMC) virus and is supplied as a control for the RNA/DNA isolation, the RespiFinder® SMART 22 assay and to check for possible PCR inhibitors.

Detection

Detection of the various RespiFinder® SMART amplicons is accomplished by melting curve analysis on LightCycler 480, LightCycler 2.0 (Roche), Rotor-Gene 3000/6000 (Corbett) and Rotor-Gene Q (Qiagen) Real Time PCR instruments.

Quality

Clinically validated, QCMD validated and **CE IVD** - marked. Produced according to the ISO 13485:2003 standard.



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