



# PathoFinder | Company Profile

*Next Generation Molecular Diagnostics*



## Company

PathoFinder offers a new generation of sensitive and robust comprehensive molecular diagnostics for infectious diseases. Our proprietary multiparameter analysis technologies enable a rapid detection and identification of multiple human pathogens in clinical specimens, with the same sensitivity and specificity as singleplex Real Time PCR. Our products are designed to work on many commercially available detection systems enabling a rapid introduction into molecular diagnostics laboratories.

### Products

With PathoFinder products, up to 25 pathogens can be readily identified in a single, easy to perform assay. PathoFinder products save time, allow for automation and are cost-effective, and thus address the three major aspects of introducing comprehensive molecular diagnostics in the daily clinical routine.

### Technologies & Quality

PathoFinder products are either based on our proprietary MultiFinder™ or SmartFinder™ technologies, or on Real Time PCR. Our **CE IVD** marked products are developed and produced according to ISO 13485:2003 and are validated on all relevant QCMD panels to ensure optimal quality, sensitivity and specificity.

### Product Matrix

Respiratory pathogens detected by PathoFinder products																											
	Influenza A	Influenza B	Influenza A H1N1v	Influenza A H5N1	RSV A	RSV B	Adenovirus	Rhinovirus	Rhino / Enterovirus	Coronavirus 229E	Coronavirus OC43	Coronavirus NL63	Coronavirus HKU1	Parainfluenza 1	Parainfluenza 2	Parainfluenza 4	Parainfluenza 3	Bocavirus	human Metapneumovirus	Bordetella pertussis	Chlamydia pneumoniae	Mycoplasma pneumoniae	Legionella pneumophila	Mycobacterium tuberculosis	Internal Control		
<b>RealAccurate™ Real Time PCR kits</b>																											
Respiratory RT PCR kit	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓							✓	
Respiratory RT PCR kit v2.0 <b>NEW!</b>	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						✓	
M. pneu + C. pneu Duplex PCR kit																						✓	✓			✓	
CUSTOM PANELS (o = optional)	o	o			o	o	o		o	o	o			o	o	o	o				o	o				✓	
Mycobacterium Tuberculosis RT PCR kit																									✓	✓	
<b>MultiFinder™ kits &gt; multiplex detection on capillary electrophoresis systems</b>																											
RespiFinder® 15																											
RespiFinder® 15 Cy5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						✓	
RespiFinder® 19																											
RespiFinder® 19 Cy5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
<b>SmartFinder™ kits &gt; multiplex detection on Real Time PCR instruments</b>																											
RespiFinder® SMART 22 <b>NEW!</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

\* Influenza A H1N1v infections will (also) show a positive result for Influenza A

## MultiFinder™ Multiplex PCR assays based on amplicon size analysis

In 2008, PathoFinder has introduced the MultiFinder™ technology. This technology enables detection and differentiation of up to 20 viral and bacterial targets in a single molecular diagnostic assay, with the same sensitivity and specificity as singleplex Real Time PCR.

The presence of viral and/or bacterial nucleic acids results in DNA fragments with a very specific size. Separation of the DNA fragments on a capillary electrophoresis system precisely reveals the pathogen(s) involved. Multiple infections can be easily detected in the same assay.

Based on the MultiFinder™ technology, PathoFinder offers several diagnostic tests for respiratory pathogens called RespiFinder®. Since 2011, RespiFinder® 15 and RespiFinder® 19 are also available in a large number of countries through Life Technologies / Applied Biosystems under the TrueScience™ brand.

### RespiFinder® 15 (50 assays)

Catalog No. PF0100-M (FAM labelled)

### RespiFinder® 15 Cy5 (50 assays)

Catalog No. PF0150-M (Cy5 labelled)

### Features & Benefits

- Detection and differentiation of 15 or 19 respiratory pathogens in a single assay
- As sensitive as monoplex Real Time PCR
- Contains a competitive internal amplification control
- Diagnosis within 6 hours after NA extraction
- All enzymes included
- Validated on QCMD panels and clinical samples
- **CE IVD** marked
- Software for automated analysis available

### RespiFinder® 19 (50 assays)

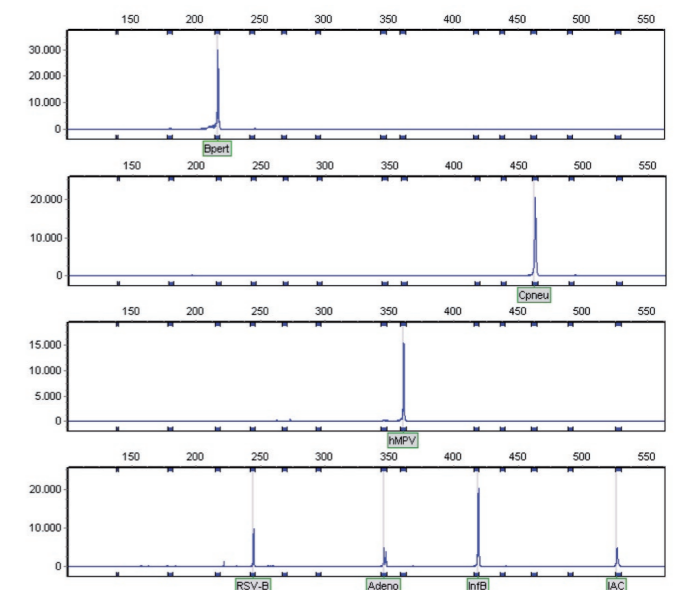
Catalog No. PF0200-M (FAM labelled)

### RespiFinder® 19 Cy5 (50 assays)

Catalog No. PF0250-M (Cy5 labelled)

### Clinical Specimens

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



## SmartFinder™ Single tube Multiplex Amplification in Real Time


Since Real Time PCR instruments are widely available in routine clinical diagnostics laboratories, we have developed and validated the SmartFinder™ technology. This technology enables the detection of multiple amplicons in RealTime PCR instruments using melting curve analysis. Therefore, SmartFinder™ offers the same specificity and sensitivity as MultiFinder™ with the accessibility and ease of use of Real Time PCR.

The first SmartFinder™ technology based product is RespiFinder® SMART 22. This kit allows the detection and differentiation of 22 respiratory pathogens in a single assay and is validated for LightCycler 480 and LightCycler 2.0 (Roche), Rotor-Gene 3000 or 6000 (Corbett) or Rotor-Gene Q (Qiagen) Real Time PCR instruments.

### RespiFinder® SMART 22

**Catalog No.** PF2100-S (50 assays)

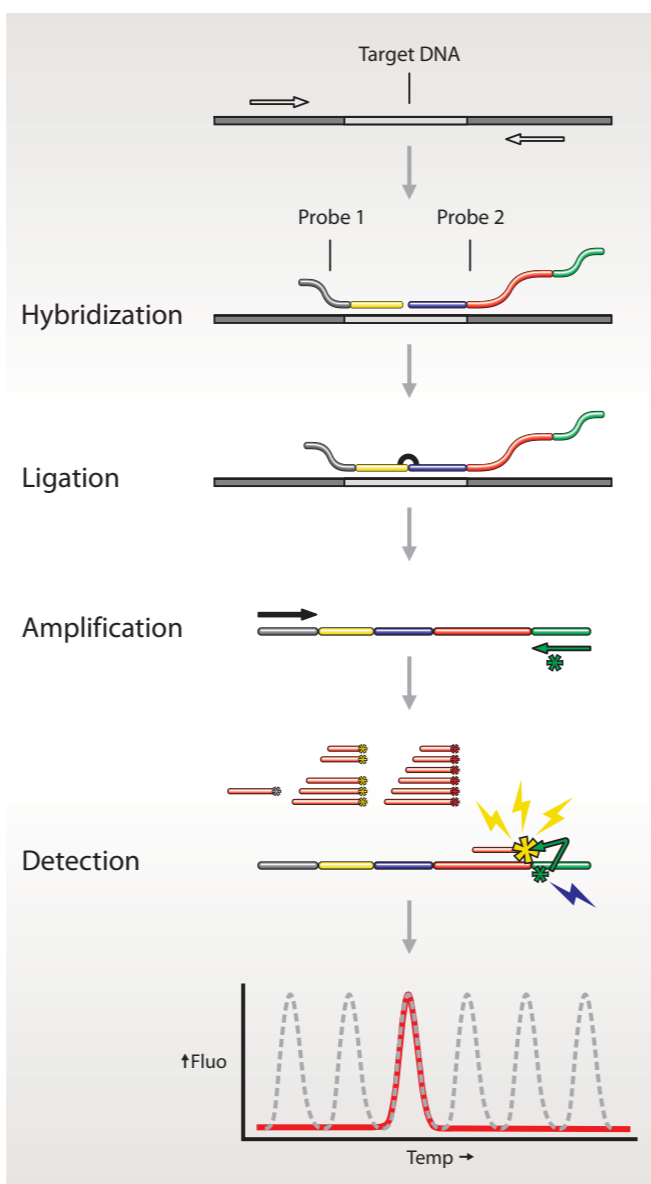
#### Features & Benefits

- Detection and differentiation of 22 respiratory pathogens in a single assay
- As sensitive as multiplex Real Time PCR
- Contains a competitive internal amplification control
- Diagnosis within 6 hours after NA extraction
- All enzymes included
- Validated on QCMD panels and clinical samples
- **CE**  marked

#### Clinical Specimens

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

### RespiFinder® SMART Assay Details



## RealAccurate™ Standardized Real Time PCR kits

RealAccurate™ Real Time PCR kits for the detection of respiratory pathogens are optimized in such a way that the same amplification conditions can be used for all assays. This means that all assays for one or more patient(s) can be run simultaneously in the same Real Time PCR machine. RealAccurate™ kits therefore offer the possibility of testing all relevant respiratory pathogens within 2 hours after nucleic acid extraction. Enzymes are not included in the kits.

PathoFinder also offers the possibility of creating a custom panel based on the assays contained in the Respiratory RT PCR kits as well as the M. pneumoniae + C. pneumoniae Duplex PCR kit.

### RealAccurate™ Respiratory RT PCR kit

**Catalog No.** PF0010-R (20 assays)

### RealAccurate™ Respiratory RT PCR kit v2.0

**Catalog No.** PF0015-R (20 assays)

#### Summary

The RealAccurate™ Respiratory RT PCR kit is a combination of 5 singleplex and 4 duplex Real Time PCR tests which can detect 14 respiratory viruses in total. Amplification and detection can be performed on Real Time PCR instruments with FAM-fluorescence detection. In the RealAccurate™ Respiratory RT PCR kit v2.0, Yakima Yellow labelled probes are used to further differentiate the 4 duplex assays.

#### Clinical Specimens

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

### RealAccurate™ M. pneumoniae +


C. pneumoniae Duplex PCR kit

**Catalog No.** PF0030-R (50 assays)

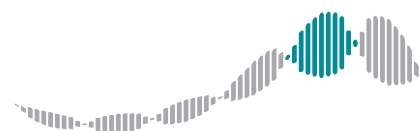
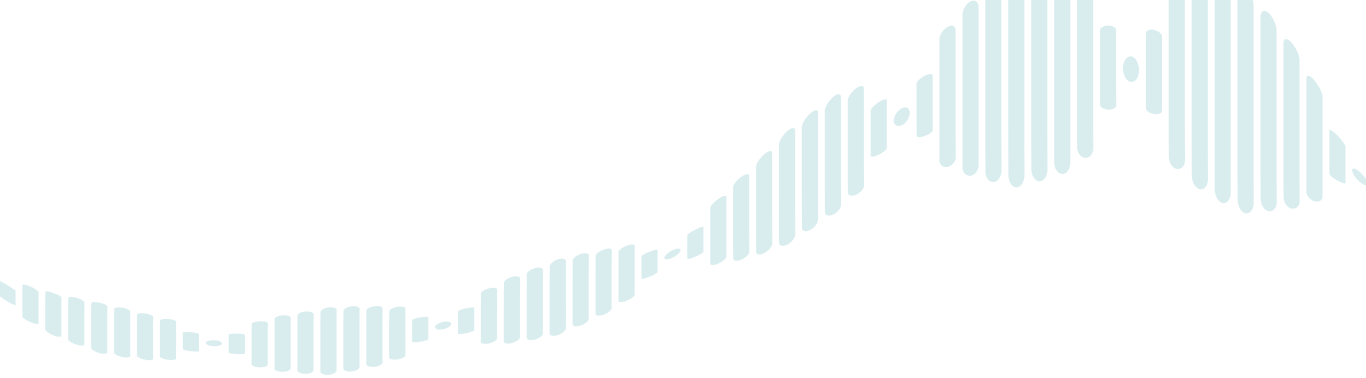
#### Summary

The RealAccurate™ M. pneumoniae + C. pneumoniae Duplex PCR kit contains primers and probes to simultaneously detect Mycoplasma pneumoniae and Chlamydia pneumoniae in respiratory samples. Amplification and detection can be performed on Real Time PCR instruments with FAM- and Yakima Yellow (VIC) detection channels.

#### Features & Benefits

- Standardized amplification conditions
- Custom kits can be produced on request
- Contains positive and internal controls
- Diagnosis within 2 hours
- Validated on QCMD panels and clinical samples
- **CE**  marked





# Patho Finder

PathoFinder B.V.  
Oxfordlaan 70  
6229 EV Maastricht  
The Netherlands

Phone: +31 (0)43 3885852  
Fax: +31 (0)84 7469245  
Email: [info@pathofinder.com](mailto:info@pathofinder.com)  
Web: [www.pathofinder.com](http://www.pathofinder.com)