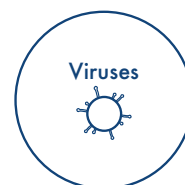


RespiFast RG Panel

The RespiFast RG Panel is a qualitative multiplex PCR test for the detection and differentiation of 22 pathogens that cause respiratory tract infections in humans. The kit is a ready-to-use assay for use with human nasopharyngeal swabs collected in Universal Transport Media (UTM). Sample preparation is automated on QIAasymphony® SP or can be performed manually. Detection is performed on Rotor-Gene® Q MDx and results are obtained within 3 hours and 30 minutes after nucleic acid extraction.

Multiplex to catch them all

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 bacteria and viruses can cause acute RTI, and the number of causative pathogens is large and diverse. RespiFast RG Panel simultaneously detects and differentiates between 22 respiratory pathogens – 16 RNA viruses, 2 DNA viruses and 4 bacteria.



Viruses

Adenovirus
Bocavirus
Coronavirus 229E
Coronavirus HKU1/NL63
Coronavirus OC43

Human Metapneumovirus
Influenza A
Influenza A H1N1pdm09
Influenza B

Parainfluenza virus type 1
Parainfluenza virus type 2
Parainfluenza virus type 3
Parainfluenza virus type 4
Rhinovirus/enterovirus
Respiratory syncytial virus type A
Respiratory syncytial virus type B

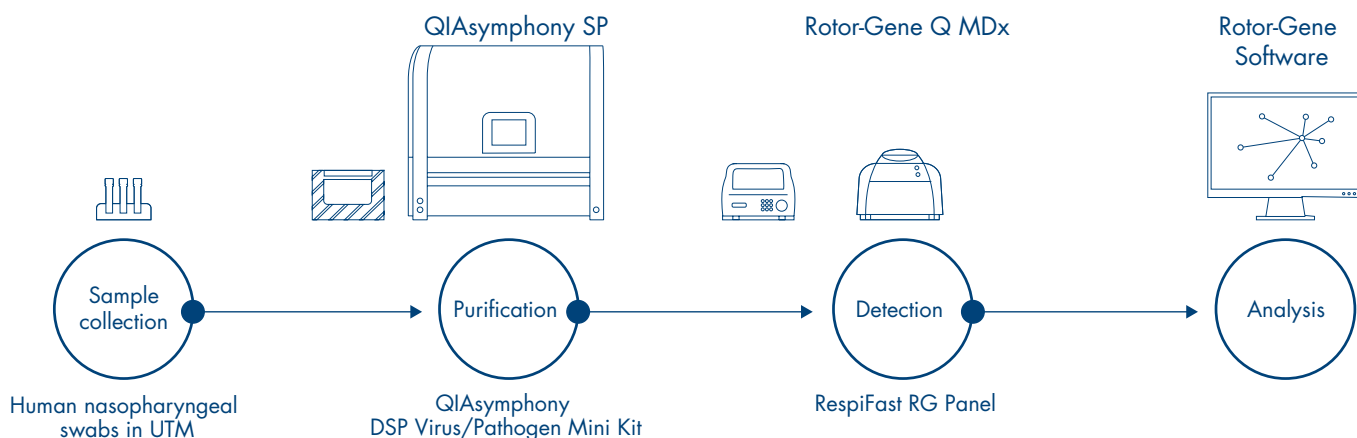


Bacteria

Bordetella pertussis
Chlamydomphila pneumoniae
Legionella pneumophila
Mycoplasma pneumoniae

Flexibility in your workflow

Nucleic acid extraction is automated on QIAasymphony SP using the QIAasymphony DSP Virus/Pathogen Mini Kit. As an alternative, manual nucleic acid extraction is validated using the QIAamp® MinElute® Virus Spin Kit. The workflow below highlights the automated nucleic acid extraction.



Outstanding detection

The limit of detection (LOD) was determined using whole virus and bacterial specimens in UTM by testing 20 replicates with the RespiFast RG Panel. The LOD for the respective pathogen was defined as a hit rate of greater than

18 out of 20 replicates. The following table details the LOD of the RespiFast RG Panel. If the LOD deviates between sample preparation methods, the LOD obtained with automated nucleic acid extraction is italicized.

Pathogen	Subtype or strain	Source	LOD copies/ml	LOD copies/reaction
Adenovirus	B3	ATCC®*	170	6
Bocavirus	N/A† (recombinant plasmid)	In-house	915 <i>4575</i>	31 <i>155</i>
Coronavirus	229E	ATCC	1610	54
Coronavirus	OC43	ATCC	9467	316
Coronavirus	NL63	Zepto-Metrix	120 <i>600</i>	4 <i>20</i>
Coronavirus	HKU1 (RNA extract from viral culture)	CHU Caen, France	192	6
Coxsackievirus	A9	ATCC	1840	61
Human Metapneumovirus	B3	Zepto-Metrix	350	12
Influenza A	H3N2 Victoria	ATCC	1195 <i>2390</i>	40 <i>80</i>
Influenza A	H1N1 Virginia	ATCC	140	5
Influenza B	Maryland	ATCC	173	6
Parainfluenza	1	ATCC	281 <i>7025</i>	9 <i>225</i>
Parainfluenza	2	ATCC	1053	35
Parainfluenza	3	ATCC	395	13
Parainfluenza	4a	ATCC	347	12
Rhinovirus	16	ATCC	90	3
Respiratory syncytial virus type A	2	ATCC	96	3
Respiratory syncytial virus type B	18537	ATCC	175 <i>1750</i>	6 <i>60</i>
<i>B. pertussis</i>	N/A	ATCC	70 <i>350</i>	2 <i>10</i>
<i>L. pneumophila</i>	N/A	ATCC	209	7
<i>M. pneumoniae</i>	N/A	ATCC	440	15
<i>C. pneumoniae</i>	N/A	ATCC	201	7

* American Type Culture Collection, USA.

† Not applicable.

Ordering Information

Product	Contents	Cat. no.
RespiFast RG Panel	For 25 reactions: Pre-amplification Master Mix, Pre-amplification primer mix, RespiFast buffers, RespiFast enzyme, Internal Control, Positive Control, Dilution buffer	4693163

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit handbook or user manual. QIAGEN kit handbooks and user manuals are available at www.qiagen.com or can be requested from QIAGEN Technical Services or your local distributor.

Trademarks: QIAGEN®, Sample to Insight®, QIASymphony®, QIAamp®, MinElute®, Rotor-Gene® (QIAGEN Group); ATCC® (American Type Culture Collection); UTM™ (Copan Diagnostics, Inc.).
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